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4-H Youth Publications Bibliography: North Central and Northeastern States

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Department of
Agriculture



National Agricultural Library

PREFACE

This bibliography provides a listing of 4-H publications in the collections of the National Agricultural Library. The publications were added to the collections as the result of a specially funded project of the Extension Service, USDA. The purpose of the project is to bring together in one location all publications used in the Extension Service 4-H Youth educational programs by the 12 North Central States (Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin). Publications provided by the Northeastern Region publications coordinator, the National 4-H Council, and Extension Service, USDA are also included in this collection.

The arrangement of publications is geographical by state with titles listed in alphabetic sequence within each state. New 4-H Youth publications are being added continuously to the collection. In order to locate publications rapidly by subject, users should request a search of the NAL database AGRICOLA. Searches can be initiated by librarians at the libraries of the land-grant universities. Copies of publications listed in this bibliography should be ordered from the publishing source listed in the pertinent citation.

This document is prepared for limited distribution within the USDA Extension Service only. The project leader was Dr. Robert J. Frist, State 4-H Leader, Indiana Cooperative Extension Service. Special recognition for their work on this project should be given to Linda Ffolliott, Arizona Cooperative Extension Service, and Patricia John and Irene Glennon of the National Agricultural Library.

For further information about this collection, contact Joseph R. Judy, Chief, Information Systems Division, National Agricultural Library, 5th Floor, Beltsville, MD 20705, or the undersigned.

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Extension Service
Program Development, Evaluation
and Management Systems
5th Floor
National Agricultural Library Building
Beltsville, MD 20705

CONNECTICUT

1

Attracting birds.

McDowell, Robert D. 1965. This guide is designed to assist 4-H members and other youth in providing habitats and feeding wild birds. [10] p. : ill. Document available from: Agricultural Publications, Box U-35, University of Connecticut Storrs, Connecticut 06268. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Family; Decision making; Personal growth.

2

Environmental awareness : wildlife.

Curtis, Otis F. 1978. This manual for 4-H members focuses on understanding wildlife, project activities, habitat improvement, feeders and nests, and census methods. Suggested readings are included. Cooperative Extension Service, University of Connecticut, College of Agriculture, Storrs, Ct. 06268. 36 p. : ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary and junior high level.

3

Plan and plant outdoor gardening, community beautification : 4-H leaders' guide.

Boicourt, Alfred W. 1979. This is one in a series of twenty 4-H Plan and Plant guides for leaders with identification of community needs, cultural information, and lesson plans on six topics. Each plan includes purposes, materials needed, and procedures. Cooperative Extension Service, University of Connecticut, College of Agriculture, Storrs, CT. 06268. 11 p. : ill. Not part of a sequence. Publication suitable for: General. Leader material. Publication intended for senior high and adult levels.

4

Plan and plant outdoor gardening, community beautification : 4-H leader's guide.

Boicourt, Alfred W. 1979. This is one in a series of twenty 4-H plan and plant guides for leaders covering identification of community needs, cultural information, and lesson plans on six topics (e.g., spring bulbs and street planters). Each plan includes purposes, materials needed, and procedures. 11 p. : ill. Document available from: Cooperative Extension Service, University of Connecticut, College of Agriculture, Storrs, Connecticut 06268. Publication intended for: Leader; Senior and Adult Level. Learning Experience: Knowledge, skills, practices; Leadership skills; Decision making; Social; Personal growth; Citizenship and community.

5

Raising surgical capons.

Talmadge, Daniel W. 1974. This guide, for 4-H members and other youth, covers the fundamentals of raising capons for experience and profit. . Document available from: Agricultural Publications, Box U-35, University of Connecticut Storrs, Connecticut 06268. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; Personal growth.

6

The world of the young person.

Schumacher, Warren P. Nuttall, Paul E. Peck, Rhoda. Ray, Noreen. VanHorn, James. Washington, Esther. 1974. This guide is designed to assist 4-H and other youth leaders in gaining an inside view of the needs and feelings of young people. 8 p. : ill. Document available from: Agricultural Publications, Box U-35, University of Connecticut, Storrs, Connecticut 06268. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices; Family; Decision making;

Social; Personal growth;
Citizenship and community.

7

4-H plan and plant - ground covers - leader's guide.
Rouse, Wesley F. Jr. Fordham, Herbert C. Fortney, Robert. Lacey, Donald. Schaufler, Ernest. 1976. This is one in a series of 19 horticultural guides for 4-H leaders including information on kinds of ground covers and cultural practices. Learning about ground covers, planting and care, and starting plants appear in three lesson plans. 12 p. : ill. Document available from: Agricultural Publications, Box U-35, University of Connecticut, Storrs, Connecticut 06268. Publication intended for: Leader; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth.

8

4-H sheep handbook.
Malkus, Louis A. 1975. This guide includes objectives, information, and techniques to assist young people in raising and marketing sheep. 20 p. : ill. Document available from: Agricultural Publications, Box U-35, University of Connecticut, Storrs, Connecticut 06268. Publication intended for: Member; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; Personal growth.

DELAWARE

9

Mulligan stew guidebook for teachers/leaders/aides expanded food nutrition TV series supportive literature.
Michigan State University Cooperative Extension Service. 1972. This guide book supports the six lessons of the food nutrition television series, mulligan stew. 20 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Low Income, Leader. Learning Experience: Knowledge, skills, practices; Decision making.

DISTRICT OF COLUMBIA

10

Adventures in citizenship, a leader's handbook.
Freeman, Charles. 1969. This handbook shows leaders how to

develop a program to teach citizenship at various age levels, as a club activity, and offers suggestions for field trips and resource people. 76 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Leadership skill; Decision making; Social; Personal growth; Citizenship and community.

11

Adventures in vision, leader's guide for 4-H eye care education.

Freeman, Charles. 1976. This guide discusses the need for eye education, understanding the eye and vision, and eye care. A glossary, resources and activities are included. 47 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Decision making.

12

Adventures in woodworking, Unit 1, 4-H Engineering Woodworking Program.

Barquest, Glenn. Palmer, Edward. 1970. This manual introduces woodworking to the beginner, including using tools, finishing wood, and making articles from wood. Woodworking plans are included. 31 p. : ill. Document available from: Education Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: General, Member and Elementary Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making.

13

Adventures with your camera, unit 1, leader's guide.

Eastman Kodak Company. 1978. This guide for unit 1 shows how to conduct the project, equipment needed, resources available and meeting outlines. 12 p. Document available from: Educational Aids National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for leader. Learning Experience: Knowledge, skills, practices ; Decision making ; Social.

14
Adventures with your camera, unit 1, member's manual.
 Eastman Kodak Company. 1977. This manual covers basic photographic techniques, how to take pictures, handling and care of the camera, photo stories, print and negative care. A glossary and bibliography are included. 32 p. : ill. Document available from: Educational Aids National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for member. Publication intended for elementary level, junior high level. Leader's guide available. Learning Experience: Knowledge, skills, practices ; Decision making ; Social ; Personal growth.

15
All American foods, a 4-H food-nutrition project, members manual.
 Cook, Frances. Spindler, Evelyn B., Kelley, Fern S., Davis, Robert F. Duncan, Dorothy. Groppe, Christine. 1969. This publication teaches an appreciation for foods from various sections of America and periods of history. Recipes, experiments and a basic food plan are included. 37 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary and Junior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making.

16
All American foods, a 4-H learn-to-cook project, leaders' guide.
 Cook, Frances. Spindler, Evelyn B., Kelley, Fern S., Davis, Robert F. Duncan, Dorothy. Groppe, Christine. 1969. This guide instructs leaders in the series of activities covered in its companion member manual. Developing cooking skills, buying and storage, meal planning and extra program ideas are included for each activity. 15 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices.

17
Animal disease, unit 2, veterinary science leaders guide.

National 4-H Veterinary Science Program Development Committee. 1967. This guide for unit II reinforces lessons presented in the member manual, including resources, lesson plans and activities. 13 p. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Decision making.

18
Animal disease, unit 2, veterinary science member manual.
 National 4-H Veterinary Science Program Development Committee. 1967. This unit covers animal disease including those caused by bacteria, viruses, external and internal parasites, nutrition, poison, stress and heredity. Includes 9 lessons with worksheets and a glossary. 58 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

19
Animal tracks.
 Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on identifying and making animal track casts. [6] p. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making.

20
Archery.
 Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on archery including selecting equipment, rules and safety, using equipment, targets and target shooting. Other references are given. 15 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior and Senior High Levels. Learning experience:

Knowledge, skills, practices.
Decision making. Personal
growth.

21

**Automobiles and energy, 4-H
automotive program.**
National 4-H automotive task
force. 1979. This manual
covers driving for economy for
the teenage driver, including
maintenance and trip planning.
Leader information,
activities, economy rally
meeting plans, and a resource
list are included. 16 p. :.
ill. Document available from:
Educational Aids, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for Member, Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making; Careers,
earning and saving.

22

The baker's dozen.
Standard Brands Incorporated.
1974. This booklet gives bread
baking recipes and activities
in support of the 4-H bread
program including nutritional
information, judging bread and
rolls and bread
demonstrations. [19] p. :.
ill. Document available from:
Program Services, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member and Junior High
Level. Learning experience:
Knowledge, skills, practices.
Decision making.

23

**Bass and bream pond
management.**
Southern Regional 4-H Wildlife
Literature Committee. 1979.
This wildlife activity guide
covers information and
activities on pond management
including construction of a
pond, stocking, fertilization,
weed control and fish
harvesting. Other references
are given. 11 p. :. ill.
Document available from:
Educational Aids, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member, Junior and Senior
High Levels. Learning
experience: Knowledge, skills,
practices. Decision making. ;
Careers, earning, and saving.

24

**Beaver ponds :. wildlife
project.**
Southern Regional 4-H Wildlife
Literature Committee (U.S.).
1980. This wildlife activity
guide covers information and

activities on locating beaver
ponds and studying the
activity of beavers. [4] p. :.
ill. Document available from:
Educational Aids, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member; Elementary,
Junior and Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

25

**Behind the switch, unit 5,
leader's guide.**
National Electric Energy
Program Development Committee.
1979. Leaders guide gives
lesson outlines and suggests
preparation for unit five
member's manual. 8 p. Document
available from: Educational
Aids National 4-H Council,
7100 Connecticut Avenue,
Washington, D.C. 20015.
Publication intended for
leader. Learning Experience:
Knowledge, skills, practices ;
Decision making : Careers,
earning and saving.

26

**Behind the switch, unit 5,
member's manual.**
National Electric Energy
Program Development Committee.
1979. This unit 5 manual
explains how electricity is
generated. Manual covers hydro
power, steam cycle, fossil
fuels, nuclear, solar,
geothermal, windpower, and
biomass conversion in 13
lessons. 32 p. :. ill.
Document available from:
Educational Aids National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for member. Publication
intended for senior high
level. Leader's guide
available. Learning
Experience: Knowledge, skills,
practices ; Decision making ;
Careers, earning and saving ;
Personal growth.

27

Birdhouses and bird furniture.
Southern Regional 4-H Wildlife
Literature Committee. 1979.
This wildlife activity guide
covers information and
activities on building
birdhouses, waterers, feeders
and guards. 5 p. :. ill.
Document available from:
Educational Aids, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member, Elementary,
Junior and Senior High Levels.
Learning experience:
Knowledge, skills, practices.
Decision making.

28
Braiding the hunter's mane & tail (worksheet).
 Tutton, Jane S. 1977. This worksheet supports the learning concepts taught in a companion lesson sheet. Gives answers. [4] p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Conn. Ave., Washington, D.C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

29
Braiding the hunter's mane and tail.
 Sabin, Sam W. 1977. This lesson sheet covers the reasons for and techniques on how to braid the mane and tail of a horse. [5] sheets : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

30
Building bigger things, Unit 3, 4-H Engineering Woodworking Program.
 Barquest, Glenn. Palmer, Edward. 1972. This Unit 3 woodworking manual covers the structure and kinds of wood, board measure and wood tools - chisels, planes, rasps and files, plus a discussion of joints. Woodworking plans are included. 31 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making.

31
Buying a horse.
 Sabin, Sam W. 1977. This lesson sheet covers considerations in buying a horse -- cost, facilities, age of horse, use intended, where to buy, what sex, registration and health. [5] sheets : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

32
The car and the highway, Unit 1, 4-H automotive project, leaders' guide.
 National 4-H Automotive Program Development Committee. 1977. This guide assists leaders in teaching the accompanying member manual. 11 p. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving.

33
The car and the highway, unit 1, 4-H automotive project.
 National 4-H Automotive Program Development Committee. 1977. The nine sections in this manual cover basic principles of internal combustion, highway safety, car costs, and recordkeeping. Activities and worksheets are included. 47 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making; Social; Careers, earning and saving; Personal growth.

34
The care of dogs and puppies.
 Hartman, Dennis A. National 4-H Dog Care & Training Development Committee. 1977. This publication covers the general care and selection of dogs, dog owner's responsibility, feeding and breeding, diseases, parasites, vaccinations and first aid, and building a dog house. Includes glossary. 31 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary and Junior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making.

35
Careers in the automotive industry.
 National Automotive Task Force. 1980. This advanced unit of the 4-H Automotive Unit covers jobs and educational opportunities in the automotive industry and qualifications necessary for each. 8 p. : ill. Document available from: Educational Aids, National 4-H Council,

7100 Connecticut Avenue,
Washington, D.C. 20015.
Publication intended for:
Member and Senior High Level.
Learning experience:
Knowledge, skills, practices.
Decision making. ; Personal
growth. Careers, earning and
saving.

36
**Challenges in picture-taking,
unit 2, member's manual.**
Eastman Kodak Company. 1976.
This manual shows how to take
good pictures, photo
composition, telling photo
stories and making picture
displays and slide shows. A
glossary is included. 24 P. :
ill. Document available from:
Educational Aids National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for member. Publication
intended for junior high
level. Leader's guide
available. Learning
Experience: Knowledge, skills,
practices ; Decision making ;
Social ; Personal growth.

37
**Challenges in picture-taking,
unit 2, leader's guide.**
Eastman Kodak Company. 1976.
This guide for unit 2 shows
how to conduct the project,
equipment needed, resources
available and meeting
outlines. 12 p. Document
available from: Educational
Aids National 4-H Council,
7100 Connecticut Avenue,
Washington, D.C. 20015.
Publication intended for
Leader. Learning Experience:
Knowledge, skills, practices ;
Decision making ; Social.

38
**Clues to management, a 4-H
home management members'
manual.**
National 4-H Home Management
Program Development Committee.
1978. This manual is designed
to use clues in teaching
management such as resources,
choices, conflicts, and
standards. This second manual
in sequence on home management
is divided into eight parts,
each including activities. 32
p. : ill. Document available
from: Educational Aids,
National 4-H Council, 7100
Connecticut Avenue,
Washington, D.C. 20015.
Publication intended for
Member, Junior and Senior High
Level. Leader's guide
available. Learning
Experience: Knowledge, skills,
practices; Decision making;
Careers, earning and saving;
Personal growth.

39
**Clues to management, 4-H home
management leader's guide.**
National 4-H Home Management
Program Development Committee.
1978. This guide supports the
unit two member manual with
teaching guides. 13 p. : ill.
Document available from:
Educational Aids, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for Leader. Learning
Experience: Knowledge, skills,
practices; Decision making;
Careers, earning and saving.

40
Cold horseshoeing.
Kreider, Jack. 1972. This
lesson sheet covers the
principles of cold
horseshoeing -- handling the
feet, removing old shoes,
trimming feet, checking foot
levelness, shaping the shoe,
nailing the shoe and hoof
care. [5] sheets : ill.
Document available from:
Educational Aids, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member; Junior and Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Decision making;
Careers, earning and saving.

41
Color slides unit.
Eastman Kodak Company. 1971.
This advance skill guide sheet
gives suggestions and
references on working with
color slides, including career
opportunities. 2 p. : ill.
Document available from:
Educational Aids, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member and Senior High
Level. Learning experience:
Knowledge, skills, practices.
Decision making. Careers,
earning and saving. Personal
growth.

42
Commodity marketing.
National 4-H Commodity
Marketing Program Committee.
1975. This manual offers
subject matter information and
activities on marketing,
commodities, futures market,
supply and demand, competition
in the market place,
government's role,
transportation, hedging and
speculation. 60 p. : ill.
Document available from:
Program Services, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member, Junior and Senior
High Levels. Leader's guide
available. Learning

experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

43

Commodity marketing leader's guide.

National 4-H Commodity Marketing Program Committee. 1975. This guide gives guidelines on how to conduct a 4-H commodity marketing project and how to utilize the companion member manual to best advantage. 5 p. : ill. Document available from: Program Services, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices; Decision making.

44

Competitive trail riding.

Saare, Sharon. 1977. This lesson sheet covers details involved in competitive trail riding -- organizing the ride, qualifications and divisions, health and safety, equipment, scoring and testing, judging. [5] sheets : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Social.

45

Competitive trail riding (worksheet).

Tutton, Jane S. 1977. This worksheet supports the learning concepts taught in a companion lesson sheet. Gives answers. [4] p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Conn. Ave., Washington, D.C. 20015. Publication intended for: Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Social.

46

Connotative camping.

Biever, Lawrence. Biever, Anna Rose. 1978. This handbook covers 4-H camping plans, counseling, cabin management, camping events and activities, campfires, flag reverence, nature hikes, games and emotional needs of campers. 193 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015.

Publication intended for: Leader and Staff. Learning experience: Knowledge, skills, practices. Decision making. Social. Citizenship and community.

47

Controlling internal parasites.

Drudge, J. H. 1977. This lesson sheet covers different types of horse parasites, their life cycles, prevention, control and treatment. [4] p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

48

The craftsman, Unit 4, 4-H Engineering Woodworking Program.

Barquest, Glenn. Palmer, Edward L. 1972. This Unit 4 woodworking manual covers the care and handling of power tools, plus sections on gluing, painting and finishing. Woodworking plans are included. 39 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Senior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making.

49

Dog obedience training lessons for beginners, graduate beginners, brace and team.

Hartman, Dennis A. 1977. This publication shows the steps to follow in dog obedience training. It is divided into a series of lessons and includes leader instructions. 17 p. : ill. Document available from: Education Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary and Junior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices.

50

Dog obedience training lessons for novice, graduate novice, open and utility.

Hartman, Dennis A. 1977. This publication teaches advanced dog training including jumping and retrieving and competing

in AKC trials. It is a sequel to CO 802 on elementary obedience training. 16 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

51

Doors of adventure. Ortho Division, Chevron Chemical Company. 1977. This publication gives information and suggested activities on gardening, including related topics such as making terrariums, flower arranging, forcing bulbs, and making corsages. Directed toward urban audiences. [5] p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Member, Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Personal growth.

52

Dorothy Emerson's scrapbook, a collection of writings and notes of Dorothy Emerson. Emerson, Dorothy. 1973. This book is a collection of writings and notes of Dorothy Emerson supporting 4-H leadership and citizenship development. 92 p. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Member, Leader, Senior High Level. Learning Experience: Knowledge, skills, practices.; Leadership skills; Decision making; Social; Personal growth; Citizenship and community.

53

Economics, jobs and careers activities for 4-H families. Anderson, Sharon. 1980. This national intern report gives activities through which family members can begin to share ideas, feelings and skills relating to economics, jobs and careers, and grow together as a group. 51 p. :. ill. Document available from: Educational Aids National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for leader, staff. Publication intended for senior high level. Learning Experience: Knowledge, skills, practices ; Family ; Decision making ; Careers, earning and saving ;

Personal growth.

54

Electricity for family living, unit 4, leader's guide. National Electric Energy Program Development Committee. 1979. Leader's guide gives lesson outlines and suggests preparation for unit four member manual. 5 p. Document available from: Educational Aids National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for leader. Learning Experience: Knowledge, skills, practices ; Family ; Decision making ; Careers, earning and saving.

55

Electricity for family living, unit 4, member's manual. National Electric Energy Program Development Committee. 1979. This unit 4 manual explains the uses of electricity in the home for lighting, heating, cooling and appliances to help with the work. Ten lessons with activities are included. 41 p. :. ill. Document available from: Educational Aids National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for member. Publication intended for junior high level, senior high level. Leader's guide available. Learning Experience: Knowledge, skills, practices ; Family ; Decision making ; Careers, earning and saving ; Personal growth.

56

Electricity's silent partner-magnetism, unit 2, leaders' guide. National 4-H Electric Energy Program Development Committee. 1977. Leaders guide gives lesson outlines and suggests preparation for unit 2 members manual. 12 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Decision making.

57

Electric's silent partner-magnetism, unit 2, members' manual. National 4-H Electric Energy Program Development Committee. 1977. This unit 2 manual explains magnetism and electromagnets and the relationship of magnetism to electricity. Includes 9

lessons and a glossary. Activities are included. 24 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary and Junior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

56
English saddles (structure and construction).

Sabin, Sam W. 197?. This lesson sheet covers the basic construction and use of English saddles. [4] p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D. C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

59
Enlarging unit.

Eastman Kodak Company. 1971. This advance skill guide sheet gives suggestions and references on enlarging photographs, with some information on career opportunities. 2 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving. Personal growth.

60
Enlarging your cycling world, Unit III.

National 4-H Bicycle Committee. 1969. This pamphlet covers personalizing your bike; cleaning and adjusting bearings, respoking a wheel, planning bike trips, and serving your community. 4 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Junior High Level. Learning experience: Knowledge, skills, practices. Decision making. Social. Careers, earning and saving. Personal growth. Citizenship and community.

61

Exploring career opportunities in photography.

Eastman Kodak Company. 1967. This advanced skill guide sheet gives general information and references on photography career opportunities. 2 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Senior High Level. Learning experience: Decision making. Careers, earning and saving.

62
Exploring citizenship :. unit IV-my community.

Milton, Ruth. Korsching, Peter. 1979. This manual, for twelve year olds and over, stresses community understanding and involvement. Manual includes project summary and activities. Educational Aids and Publications, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. 31 p. :. ill. Part of a sequence. Publication suitable for: General. Member material. Publication intended for junior high level.

63
Exploring citizenship, leader's guide.

Roberts, Norma O. 1979. Guide assists leaders in conducting the seven unit exploring citizenship series. Educational Aids & Publications National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. 11 p. :. ill. Part of a sequence. Publication suitable for: General. Leader material. Publication intended for senior high and adult level.

64
Exploring citizenship, unit V: my heritage.

Powell, Ben. 1979. This manual, for fourteen year olds and over, includes project summary and activities for tracing personal (family), community, county, and state backgrounds. Educational Aids & Publications, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. 19 p. ill. Part of a sequence. Publication intended for general. Member material. Publication intended for junior high level and senior high level.

65
Exploring citizenship, Unit I - Me, my family and my

friends.

Spencer, Maurice. 1979. This manual is for nine year olds and below. It focuses on self-identity. Manual includes project summary and activities - in large print. Educational Aids & Publications, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. 39 p. : ill. Part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary level.

66

Exploring citizenship, Unit III - My clubs and groups.
Soileau, Robert. 1979. This manual for eleven year olds stresses learning how to function in organized groups. Manual includes project summary and activities. Educational Aids & Publications, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. 23 p. : ill. Part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary level.

67

Exploring citizenship, unit III, my clubs and groups.
Soileau, Robert. Southern Regional 4-H Citizenship Literature Committee (U.S.). 1979. This manual for eleven year olds stresses learning how to function in organized groups. Planning and conducting a meeting, electing officers, and committee work are covered. Manual includes project summary and activities. 22 p. : ill. Document available from: Educational Aids & Publications, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Leadership skills; Decision making; Social; Personal growth; Citizenship and community.

68

Exploring citizenship, Unit VI - My government.
Savatski, Treva. 1979. This manual is for fourteen year olds and older. It includes government systems, laws and voting, manual includes project summary and activities. Educational Aids & Publications, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. 23 p. : ill. Part of a sequence. Publication suitable for: General. Member material.

Publication intended for junior high and senior high level.

69

Exploring citizenship, Unit VII - My world.
Powell, Ben. 1979. This manual, for fourteen year olds and older, stresses international study and multicultural understanding. Manual includes project summary and activities. Educational Aids & Publications, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. 15 p. : ill. part of a sequence. Publication suitable for: General. Member material. Publication intended for junior and senior high levels.

70

Exploring citizenships, unit II-my neighborhood.
Roberts, Norma O. 1979. This manual for ten year olds includes project summary and activities. It covers being a good neighbor and a good citizen at school. Educational Aids & Publications, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. 15 p. : ill. Part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary level.

71

Exploring movie-making, Leaders guide.
Eastman Kodak Company Cooperative Extension Service. 1970. This guide for moviemaking shows how to conduct the project, equipment needed, resources available, and meeting outlines. 16 p. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making. Social.

72

Exploring moviemaking, member's manual.
Eastman Kodak Company. 1978. This manual gives basic principles of moviemaking, including planning a movie, shooting it, zoom lenses, titling and editing, and care of movie equipment. A glossary and bibliography are included. 45 p. : ill. Document available from: Educational Aids National 4-H Council, 7100 Connecticut Avenue,

Washington, D.C. 20015. Publication intended for member. Leader's guide available. Publication intended for senior high level. Learning Experience: Knowledge, skills, practices.

73

Exploring photography, unit 3, leader's guide.

Eastman Kodak Company. 1972. This guide for unit 3 shows how to conduct the project, equipment needed, resources available and meeting outlines. 16 p. Document available from: Educational Aids National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for leader. Learning Experience: Knowledge, skills, practices ; Decision making ; Social.

74

Exploring photography, unit 3, member's manual.

Eastman Kodak Company. 1975. This manual teaches principles of photography and advanced picture-taking techniques. A glossary and bibliography are included. 48 p. : ill. Document available from: Educational Aids National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for member. Publication intended for junior high level, senior high level. Leader's guide available. Learning Experience: Knowledge, skills, practices ; Decision making ; Social ; Personal growth.

75

Exploring the world of electricity, unit 1, leaders' guide.

National 4-H Electric Program Development Committee. 1976. Leaders guide gives lesson outlines and suggested preparation for unit 1 members manual. 13 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Decision making.

76

Exploring the world of electricity, unit 1, members' manual.

National 4-H Electric Program Development Committee. 1976. This unit 1 manual explains the fundamentals of electricity and its uses. Ten lessons, including activities,

and a glossary of terms are included. 28 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Member, Elementary and Junior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

77

Exploring the world of plants and soils, Leader's guide, Unit I.

National 4-H Plant & Soil Science Program Development Committee. 1969. Leaders guide gives activities supporting the companion member manual. A glossary is included. 8 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making.

78

Exploring the world of plants and soils, Members' manual, Unit I.

National 4-H Plant and Soil Science Program Development Committee. 1969. This manual covers basic information on plant and soil science-plant reproduction, soil types and uses, plant growth factors, and plant characteristics. 21 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary and Junior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making. ; Personal growth.

79

Fish culture.

Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on fish culture, including catfish, trout and bait minnows. 8 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving.

80

Fish identification and display.

Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on fish anatomy, types of fish, and fish displays. Other references are given. 7 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making.

81

Fishing (bait, spin, fly casting and safety).

Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on fishing including selecting equipment, using equipment, care of equipment, and fishing and boating safety. A bibliography is given. 12 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Personal growth.

82

Foods with an international flavor, a 4-H food-nutrition project leader's guide.

Cook, Frances. Spindler, Evelyn B., Kelley, Fern S., Groppe, Christine. Duncan, Dorothy. Davis, Robert F. 1970. 9 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices.

83

Foods with an international flavor, a 4-H food-nutrition project members' manual.

Cook, Frances. Spindler, Evelyn B., Kelley, Fern S., Groppe, Christine. Duncan, Dorothy. Davis, Robert F. 1970. This publication discusses the favorite foods and customs of five countries - Mexico, Germany, Italy, Scandinavia, and Japan. Menus and recipes are given. Agriculture and Food production of the countries are discussed. 33 p. : ill. Document available from:

Educational aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making. Social.

84

Forest recreation, unit C-2, 4-H Forestry Program.

National 4-H Forestry Committee. Bolin, Michael F. Chesney, Clyde E. 1980. This advanced unit in forestry covers forest recreation, demand and management of recreation land, and related activities. 15 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Leader and Senior High Level. Learning experience: Knowledge, skills, practices. Decision making. Personal growth.

85

Forestry careers, unit C-5, 4-H forestry program.

National 4-H Forestry Committee. 1980. This advanced unit in forestry covers jobs and educational opportunities in the forestry industry and qualifications necessary for each. 11 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Member, Leader and Senior High Level. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving. Personal growth.

86

Forests, Unit B, 4-H forestry program.

Buhaly, Joseph. Kundt, John P. McElfresh, Will A. Walker, George "Ted". 1979. This manual covers an introduction to forest values, ecosystems, forest development and management. Content is divided into meetings. Activities and a glossary are included. 35 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Junior High Level. Learning experience: Knowledge, skills, practices. Leader's guide available.

87

Forests, Unit B, 4-H forestry program, leader's guide.
 Buhaly, Joseph. Kundt, John F. McElfresh, Will A. Walker, George "Ted". 1979. This guide covers the teaching of its companion member manual including meeting plans, presentation, materials needed, and sources of additional help. 27 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making.

88 Furbearers and trapping.
 Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on trapping furbearers, including types of traps and treating and preparing pelts. A bibliography is included. 12 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

89 Genetics of coat color.
 Lasley, John F. 1977. This lesson sheet on horse genetics related to coat color explains dominant and recessive genes as they relate to different colors and breeds of horses. [4] p. : ill. Document available from: Educational Aids, National 4-H Council, 7100, Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member; Junior and Senior High Levels. Learning Experience: Knowledge, skills, practices.

90 Getting your hands on health.
 Jones, Betty R. 1980. This guide offers many activities for individual and group participation relating to health education and promotion. 20 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making. Social. Personal growth. Citizenship and community.

91 Grooming and handling dogs.
 Hartman, Dennis A. 1977. This publication gives instructions on how to show dogs in grooming and handling classes, including showing, posing and gaiting a dog. A judging score card is included. 15 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

92 Growing and using plants, leaders' guide, Unit IIE.
 National 4-H Plant and Soil Science Program Development Committee. 1972. Leaders guide gives activities supporting the companion member manual. 9 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving.

93 Growing and using plants, members' manual, Unit IIE.
 National 4-H Plant and Soil Science Program Development Committee. 1972. This manual covers different types of plants, how and where to grow them, and different products coming from plants. A record sheet and glossary are included. 21 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior and Senior High Level. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving. Personal growth. Leader's guide available.

94 Guidelines for 4-H consumer education.
 National 4-H Consumer Education Program Development Committee. 1976. Included are a definition of consumer education, the rationale and priority content for 4-H consumer education programs, methods for teaching, a curriculum guide, and examples of learning experiences. Extension Service, USDA, 14th and Independence Ave., Wash., D.C. 20250. iii, 68 p. Not part of a sequence.

Publication suitable for:
General. Staff material.
Publication intended for adult
level.

20015. Publication intended
for: General; Member; Junior
and Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

95

**Haltering and tying horses
(worksheet).**

Tutton, Jane S. 1977. This
worksheet supports the
learning concepts taught in a
companion lesson sheet. Gives
answers. [4] p. : ill.
Document available from:
Educational Aids, National 4-H
Council, 7100 Conn. Ave.,
Washington, D.C. 20015.
Publication intended for:
Junior and Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

99

Horse packing (worksheet).

Tutton, Jane S. 1977. This
worksheet supports the
learning concepts taught in a
companion lesson sheet. Gives
answers. [4] p. : ill.
Document available from:
Educational Aids, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member; Junior and Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Decision making;
Social.

96

Handbook of the insect world.

Hercules Incorporated. 1971.
This handbook is an insect
identification resource guide.
Also includes information on
handling insecticides and
explains insect life cycles.
60 p. : ill. Document
available from: Educational
Aids, National 4-H Council,
7100 Connecticut Avenue,
Washington, D.C. 20015.
Publication intended for
Member, Leader, Junior and
Senior High Level. Learning
Experience: Knowledge, skills,
practices; Decision making.

100

Horse science.

U.S.D.A. Cooperative Extension
Service. 1965. This unit two
horse manual has 14 sections
on: horse behavior, anatomy,
genetics and reproduction,
digestive system, balanced
rations, health, sanitation,
disease and parasites. A
glossary is included. 45 p. :
ill. Document available from:
Educational Aids, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member, Junior and Senior
High Level. Leader's guide
available. Learning
experience: Knowledge, skills,
practices. Decision making.

97

**Handling and care of game and
fish.**

Southern Regional 4-H Wildlife
Literature Committee. 1979.
This wildlife activity guide
covers information and
activities on handling and
care of game and fish,
including dressing, cooking,
preserving, and recipes. Other
references are given. 12 p. :
ill. Document available from:
Educational Aids, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C. 20015.
Publication intended for:
Member, Junior and Senior High
Levels. Learning experience:
Knowledge, skills, practices.
Decision making.

101

Horses and horsemanship.

U.S.D.A. Cooperative Extension
Service. 1965. This unit horse
manual has 13 sections on:
breeds of horses, color and
markings, judging, gaits, tack
and equipment, grooming and
showing, training and safety.
A glossary is included. 48 p.
: ill. Document available
from: Educational Aids,
National 4-H Council, 7100
Connecticut Avenue,
Washington, D.C. 20015.
Publication intended for:
Member, Junior and Senior High
Level. Leader's guide
available. Learning
experience: Knowledge, skills,
practices. Decision making.
Personal growth. Social.

98

Health hints for your horse.

Coffman, James R. 1977. This
lesson sheet covers various
horse ailments including
laminitis (founder), Navicular
Disease, nail punctures,
colic, abrasions, teeth care,
nutrition and internal
parasites. [4] p. : ill.
Document available from:
Educational Aids, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.

102

**Hunter education, instructor's
guide.**

Daisy Division Victor
Comptometer Corporation. 1974.
This teaching guideline
includes 10 lessons on hunter
education including guns and

ammunition, gunhandling, marksmanship, range firing, gun care, game laws, first aid, and safety. 60 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.D. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making.

103

Hunting and fishing - Sportsmanship. Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on hunting and fishing sportsmanship. 5 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member. Junior and Senior High Levels. Learning experiences: Knowledge, skills, practices. Decision making. Personal growth.

104

Immunology, zoonoses and public health, unit 3, veterinary science leaders guide. National 4-H Veterinary Science. Program Development Committee. 1968. This guide for unit 3 reinforces lessons presented in the member manual including resources, lesson plans and activities. 22 p. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Decision making; Social; Citizenship and community.

105

Immunology, zoonoses and public health, unit 3, veterinary science member manual. National 4-H Veterinary Science Program Development Committee. 1968. This unit covers immunology, invasion of pathogens, The Allergin Theory, zoonosis, environmental health, public health and consumer protection. Includes nine lessons, each with a worksheet, and a glossary. 48 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Member, Senior High Level. Leader's guide available. Learning Experience:

Knowledge, skills, practices; Decision making; Social; Personal growth; Citizenship and community.

106

Incredible milk. Carnation Company. 1978. This manual explains the different types of dairy foods, nutrition, and offers dairy foods recipes for breakfast, lunch, dinner, parties and foods experiments, many activities are included. 20 p. : ill. Document available from: Program Services, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary and Junior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Personal growth.

107

Intermediate trail riding. Bradley, C. Melvin. 1977. This lesson sheet covers information on trail riding -- selecting the trail, camp considerations, equipment needed, selecting a trail horse, safety precautions and courtesy. [5] sheets : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Social.

108

International intrigue. Plihal, Jane. 1978. This manual is designed to teach international education, cultural awareness, brotherhood and society. Includes activities and references. 13 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices. Decision making. Personal growth. Social. Citizenship and community. Leadership skills.

109

Investigating small-business opportunities unit. Eastman Kadak Company. 1970. This advanced skill guide sheet gives objectives and suggestions for investigating small-business opportunities

in the photography field. 2 p.
: ill. Document available
from: Educational Aids,
National 4-H Council, 7100
Connecticut Avenue,
Washington, D.C. 20015.
Publication intended for:
Member and Senior High Level.
Learning experience: Decision
making. Careers, earning and
saving. Personal growth.

110

It's fun to be a model.
Simplicity Pattern Co. Inc.
1973. Brochure geared to
females on modeling in 4-H
fashion revues. [4] p. : ill.
Document available from:
Program Services, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member, Junior and Senior
High Levels. Learning
experience: Knowledge, skills,
practices. Decision making.
Social. Personal growth.

111

It's fun to be a model.
Simplicity pattern Co. Inc.
1973. Brochure geared to males
on modeling and escorting
support the 4-H fashion revue
program. [4] p. Document
available from: Program
Services, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member, Junior and Senior
High Levels. Learning
experience: Knowledge, skills,
practices. Decision making.
Social. Personal growth.

112

**Know the sewing machine :. 4-H
member's manual. --.**
National 4-H Service
Committee. 1976. Unit one of
two units covers operating a
sewing machine & developing
machine-stitching skills.
Education Aids & Publications,
National 4-H Council, 7100
Connecticut Avenue, Washington,
D.C. 20015. 48 p. : ill. Part
of a sequence. Publication
suitable for: General. Member
material. Publication intended
for elementary and junior high
level.

113

**Know your limits, a manual on
drugs and driving.**
National 4-H Automotive Task
Force. 1980. This manual
discusses autos and alcohol,
marijuana, and prescription
drugs. Activities, situations
and resources are given. 12 p.
: ill. Document available
from: Educational Aids,
National 4-H Council, 7100
Connecticut Avenue,

Washington, D.C. 20015.
Publication intended for:
Member. Publication intended
for: Senior High Level.
Learning experience:
Knowledge, skills, practices.
Decision making. Social.
Personal growth.

114

**Lawn and garden power
equipment, leaders' guide, 4-H
small engines program.**
Eaton, Edward O. 1978. This
publication instructs leaders
in teaching a lawn and garden
power equipment project,
including the situation,
objectives, tools and
materials needed, presentation
and supervision. 7 p. Document
available from: Educational
Aids, National 4-H Council,
7100 Connecticut Avenue,
Washington, D.C. 20015.
Publication intended for
Leader. Learning Experience:
Knowledge, skills, practices.

115

**Lawn and garden power
equipment, 4-H small engines
program.**
Eaton, Edward O. 1978. This
publication covers the safety
instructions for operating
lawn mowers, rotary tillers
and hoes, shredder/baggers,
edger/trimmers and power
vacuums. It discusses
transmitting power,
maintenance and recordkeeping.
Includes activities and
demonstrations. 31 p. : ill.
Document available from:
Educational Aids, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for Member, Junior and Senior
High Level. Leader's guide
available. Learning
Experience: Knowledge, skills,
practices; Personal growth.

116

Learning about amphibians.
Southern Regional 4-H Wildlife
Literature Committee. 1979.
This wildlife activity guide
covers information and
activities on characteristics
and classification of
amphibians including frogs,
toads, newts, and salamanders.
Other references are given. 6
p. : ill. Document available
from: Educational Aids,
National 4-H Council, 7100
Connecticut Avenue,
Washington, D.C. 20015.
Publication intended for:
Member, Elementary, Junior and
Senior High Levels. Learning
experience: Knowledge, skills,
practices. Decision making.

117

Learning about lizards.
Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on lizards of different varieties. Other references are listed. 3 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary and Junior High Level. Learning experience: Knowledge, skills, practices. Decision making.

118 Learning about snakes.
Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on snakes - poisonous and, beneficial snakes and discusses myths about snakes. Other references are given. [5] p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary and Junior High Level. Learning experience: Knowledge, skills, practices. Decision making.

119 Learning about turtles.
Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on different types of turtles. Other references are given. [3] p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary and Junior High Level. Learning experience: Knowledge, skills, practices. Decision making.

120 Learning and building, Unit 2, 4-H Engineering Woodworking Program.
National 4-H Engineering Woodworking Development Committee. 1970. This Unit 2 woodworking manual teaches how to read drawings and work with tools, including the measuring tools, hand saws, the hand drill, screwdriver, c-clamp, jig saw, and electric drill. Woodworking plans are included. 31 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Junior High Level. Leader's guide available. Learning

experience: Knowledge, skills, practices. Decision making.

121 Leisure education, guide for extension staff.
National 4-H Leisure Education Development Committee. 1978. This guide explains leisure education and outlines the rationale and objectives for the seven curriculum areas in the 4-H leisure education program-social recreation; expressive arts; cultural heritage; outdoor education/recreation; sports, exercise and physical activities; hobby; and service. 28 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Staff. Learning Experience: Knowledge, skills, practices; Leadership skills; Decision making; Social; Personal growth; Citizenship and community.

122 Living in a nuclear age.
Warner, William R. 1972. This manual supports the 4-H television series by the same name. Six programs explain atoms and nuclear science. Activities and an atom dictionary are included. 31 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Member, Junior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making.

123 Living in a nuclear age, for leaders/teachers.
Warner, William R. 1972. This guide supports the member manual and television series by the same name. Activities and references are included. 12 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Decision making.

124 Longe line training.
Sabin, Sam W. 1977. This lesson sheet covers the principles of longe line training, equipment needed, preparations, assistance

needed, techniques, problems and other uses of the technique. [4] p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practice; Decision making.

125

Longe line training (Worksheet).

Tutton, Jane S. 197?. This worksheet supports the learning concepts taught in a companion lesson sheet. Gives answers. [4] p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Conn. Ave., Washington, D. C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, sills, practices; Decision making.

126

Maintaining your bicycle, Unit II.

National 4-H Bicycle Development Committee. 1979. This pamphlet covers adjusting and repairing the bicycle and bicycle skill games. 6 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Elementary and Junior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Personal growth. Careers, earning and saving.

127

Maintenance and operation, Unit 2, 4-H automotive project.

National 4-H Automotive Program Development Committee. 1977. This guide assists leaders in teaching accompanying member manual. 10 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving.

128

Maintenance and operation, Unit 2, 4-H automotive project.

National 4-H Automotive Program Development Committee. 1977. The ten sections in this

manual cover understanding engine operation, safe driving, and career opportunities. Activities and worksheets are included. 39 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices. Decision making. Personal growth. Social. Careers, earning and saving.

129

Making a fresh water aquarium.

Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on making a freshwater aquarium, including equipment, plants and animals to use and include. 5 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making.

130

Making a wildlife resource map.

Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on making a wildlife resource map, including an explanation of map symbols. Other references are given. 3 P. *. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making.

131

Making forestry pay, unit C-6, 4-H Forestry Program.

National 4-H Forestry Committee. Buhaly, Joseph. 1980. This advanced unit in forestry covers forestry investment, christmas tree farming, and forest activities. 4 p. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Leader and Senior High Level. Learning experience: Knowledge, skills, practices. Decision making. Careers,

earning and saving. Personal growth.

132

Making posters :. 4-H poster art manual. --.

National 4-H Council. 1979. Manual includes communicating with posters, designing posters, judging and poster contest guidelines. Educational Aids and Publications, National 4-H Council, 7100 Connecticut Ave., Washington D.C. 20015. 8 p. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary and junior high levels.

133

Managing the forest for water, wildlife and forage, unit C-3, 4-H Forestry Program.

National 4-H Forestry Committee. Kundt, John F. 1980. This advanced unit in forestry covers managing water resources, wildlife management and protection and forest and range management. 12 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Leader and Senior High Level. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving. Personal growth.

134

Hartingales, tie downs & draw reins (worksheets).

Tutton, Jane S. 1977. This worksheet supports the learning concepts taught in a companion lesson sheet. Gives answers. [4] p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

135

Master the sewing machine :. 4-H member's manual. --.

National 4-H Council. 1976. Unit two of two units in sewing follows "know the sewing machine." manual covers regulating and caring for a sewing machine and sewing zig-zag stitches. Educational Aids and Publications, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. 33 p. :. ill. Part of a sequence.

Publication suitable for: General. Member material. Publication intended for elementary and junior high level.

136

Mastering photography, unit 4, leader's guide.

Eastman Kodak Company. 1972. This guide for unit 4 shows how to conduct the project, equipment needed, resources available and meeting outlines. 16 p. Document available from: Educational Aids National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for leader. Publication intended for senior high level. Learning experience: knowledge, skills, practices ; decision making ; social.

137

Mastering photography, unit 4, member's manual.

Eastman Kodak Company. 1971. This manual teaches advanced photography including film processing and making enlargements. A glossary and bibliography are included. 49 p. :. ill. Document available from: Educational Aids National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for member. Publication intended for senior high level. Leader's guide available. Learning Experience: Knowledge, skills, practices ; Decision making ; Social.

138

Minor game mammals of the Southeast.

Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on minor game animals - red fox, gray fox, bobcat, opossum, woodchuck, and nine-banded armadillo. Other references are given. 11 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making.

139

Miscellaneous tack & equipment (worksheet).

Tutton, Jane S. 1977. This worksheet supports the learning concepts taught in a companion lesson sheet. Gives

answers. [4] p. :. ill.
Document available from:
Educational Aids, National 4-H
Council, 7100 Conn. Ave.,
Washington, D.C. 20015.
Publication intended for:
Junior and Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

140

Monographs on career education, 4-H and career education.

Hoyt, Kenneth. 1978. This report shows ways the 4-H program can get involved in career education at the community level. Report is based on results of an Office of Education, HEW, miniconference. 21 p. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Staff. Learning experience: Knowledge, skills, practices. Decision making. Leadership skills. Careers, skills and saving. Citizenship and community.

141

Mourning Dove :. wildlife project.

Southern Regional 4-H Wildlife Literature Committee (U.S.). 1980. This wildlife activity guide covers information and activities on observing and studying the mourning dove's habitat, building a nesting platform and establishing and managing dove fields. [5] sheets :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

142

Mulligan stew, member manual.

Michigan State University, Cooperative Extension Service. 1972. This comic book supports the six programs of the food nutrition television series, mulligan stew. [52] p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Low Income, Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making; Social; Personal growth.

143

New horizons in 4-H health education.

O'Reilly, Lawrence B. 1978. This guide offers suggestions for programming health education and 4-H at the local level including sample program ideas for three different youth age groups. Local and national resources are listed. 18 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Leader, Staff. Learning Experience: Knowledge, skills, practices; Decision making; Citizenship and community.

144

News photography unit.

Eastman Kodak Company. 1976. This advance skill guide sheet gives suggestions and references on news photography, including career opportunities. 2 p. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving. Personal growth.

145

The normal animal, unit 1, veterinary science leaders guide.

National 4-H Veterinary Science Program Development Committee. 1966. The guide for unit I reinforces lessons presented in the member manual including resources, lesson plans and activities. 16 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Decision making.

146

The normal animal, unit 1, veterinary science member manual.

National 4-H Veterinary Science Program Development Committee. 1966. This manual covers the understanding of animals in 8 lessons. Each lesson includes a worksheet. Lessons cover attitude and behavior, body structure and systems, maintaining animal health and cleanliness. Glossary is included. 58 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C.

20015. Publication intended for: Member and Junior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making. Personal growth.

147

North American 4-H snowmobiling.

National 4-H Petroleum Power Development Committee. 1972. This 15-lesson manual, including activities and demonstrations, covers care, maintenance, operation, and safety of snowmobiles. 30 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington D.C. 20015. Publication intended for: Member and Senior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making.

148

North American 4-H snowmobiling, Leader's guide. National 4-H Petroleum Power Development Committee. 1973. This guide covers the teaching principles for lessons in the member manual. A listing of references are included. 10 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making.

149

The organized public speaker you. Union Oil Company of California. 1975. This publication present pointers on presentation and techniques to affective speech making. [6] p. : ill. Document available from: Program Services, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior High Level. Learning experience: Knowledge, skills, practices; Decision making; Personal growth.

150

Photo-visual presentation unit. Eastman Kodak Company. 1970. This advanced skill guide sheet gives suggestions and references on developing skills in photo-visual presentation. 2 p. : ill. Document available from:

Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving. Personal growth.

151

Photorecording unit. Eastman Kodak Company. 1975. This advance skill guide sheet gives suggestions and references on photorecording, including career opportunities. 2 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving. Personal growth.

152

Plant characteristics, leaders' guide, Unit IID. National 4-H Plant and Soil Science Program Development Committee. 1970. Leaders guide gives activities supporting the companion member manual. 9 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making.

153

Plant characteristics, members' manual, Unit IID. National 4-H Plant and Soil Science Program Development Committee. 1970. This manual covers plant characteristics-life cycles, types of seeds and roots, how stems and leaves function, parts of the flower. A record sheet and glossary are included. 21 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Personal growth.

154

Plant growth factors, leader's guide, Unit IIC. National 4-H Plant and Soil Science Program Development

Committee. 1972. Leaders guide gives activities supporting the companion member manual, including a plant press diagram. 9 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making.

155

Plant growth factors, member's manual, Unit IIC.
National 4-H Plant and Soil Science Program Development Committee. 1972. This manual covers plant growth factors-climate, rainfall or other weather, sunshine and light, atmosphere, and growth regulators. A record sheet and glossary are included. 21 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior and Senior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making. Personal growth.

156

Plant reproduction, Leaders' guide, Unit IIA.
National 4-H Plant and Soil Science Program Development Committee. 1970. Leaders guide gives activities supporting the companion member manual. 5 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making.

157

Plant reproduction, Members' manual, Unit IIA.
National 4-H Plant and Soil Science Program Development Committee. 1970. This manual covers sexual and asexual plant reproduction, layering, budding and grafting. A record sheet and glossary are included. 21 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary and Junior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making. Personal growth.

158

Ponds and lakes.
Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on ponds and lakes and their study, including vegetation, aquatic traps, food chains, pond water surveys, pond night life, and insects and animals of the pond. Selected references are given. 11 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary and Junior High Levels. Learning experience: Knowledge, skills, practices. Decision making.

159

Practical crop production, leaders' guide, unit III.
National 4-H Plant and Soil Science Program Development Committee. 1974. Leaders guide gives activities supporting the companion member manual. 9 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving.

160

Practical crop production, Members' manual, Unit III.
National 4-H Plant and Soil Science Program Development Committee. 1974. This manual covers practical crop production including planning, management, and keeping records. Various types of records are shown and a glossary is included. 21 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Senior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving. Personal growth.

161

Practical horse psychology.
Bradley, C. Melvin. 1977. This lesson sheet covers horse psychology, their vision, reflexes, memory and other senses. [5] sheets : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member; Junior and Senior

High Level. Learning
Experience: Knowledge, skills,
practices; Decision making.

162

Pre-bit hackamore training.
Yeates, B. F. 1977. This
lesson sheet covers the use of
hackamores to start young
horses in training -- parts of
a hackamore, fitting and
adjusting, and training
techniques. [5] sheets :. ill.
Document available from:
Educational Aids, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member; Junior and Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Decision making.

163

**Preparing for horse packing
(worksheet).**
Tutton, Jane S. 1977. This
worksheet supports the
learning concepts taught in a
companion lesson sheet. Gives
answers. [4] p. :. ill.
Document available from:
Educational Aids, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member; Junior and Senior
High Level. Learning
experience: Knowledge, skills,
practices; Decision making;
Social.

164

Providing needs of wildlife.
Southern Regional 4-H Wildlife
Literature Committee. 1979.
This wildlife activity guide
covers information and
activities on providing needs
of wildlife - food, water, and
cover. A bibliography is
included. 15 p. :. ill.
Document available from:
Educational Aids, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member, Junior and Senior
High Levels. Learning
experience: Knowledge, skills,
practices. Decision making.

165

Quail.
Southern Regional 4-H Wildlife
Literature Committee. 1979.
This wildlife activity guide
covers information and
activities on studying and
managing the bob white quail.
6 p. :. ill. Document
available from: Educational
Aids, National 4-H Council,
7100 Connecticut Avenue,
Washington, D.C. 20015.
Publication intended for
Member, Junior and Senior High
Level. Learning Experience:

Knowledge, skills, practices;
Decision making.

166

**Quick meals, a 4-H
food-nutrition project,
leader's guide.**
Cook, Frances. Duncan,
Dorothy. Groppe, Christine.
Davis, Robert F. Spindler,
Evelyn B., Kelley, Fern S.
1977. This guide instructs
leaders in the series of
activities covered in its
companion member manual.
Teaching aids, resources, and
meeting plans are given. 12 p.
:. ill. Document available
from: Educational aids,
National 4-H Council, 7100
Connecticut Avenue,
Washington, D.C. 20015.
Publication intended for:
Leader. Learning experience:
Knowledge, skills, practices.

167

**Quick meals, a 4-H food
nutrition project, members'
manual.**
Cook, Frances. Duncan,
Dorothy. Groppe, Christine.
Davis, Robert F. Spindler,
Evelyn B., Kelley, Fern S.
1977. This publication
features the teaching of quick
and easy meal planning using
the various food groups for
balanced diets. Includes
recipes and experiments. 33 p.
:. ill. Document available
from: Educational Aids,
National 4-H Council, 7100
Connecticut Avenue,
Washington, D.C. 20015.
Publication intended for:
Member and Junior High Level.
Leader's guide available.
Learning experience: Knowledge,
skills, practices. Decision
making.

168

Raccoon :. wildlife project.
Southern Regional 4-H Wildlife
Literature Committee (U.S.).
1980. This wildlife activity
guide covers information and
activities on observing and
understanding the raccoon's
habitat. [4] p. :. ill.
Document available from:
Educational Aids, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member; Junior and Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Decision making.

169

Raising crickets.
Southern Regional 4-H Wildlife
Literature Committee. 1979.
This wildlife activity guide
covers information and
activities on raising crickets

for fish bait. 2 p. :. ill.
Document available from:
Educational Aids, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member, Elementary,
Junior and Senior High Levels.
Learning experience:
Knowledge, skills, practices.
Decision making. Careers,
earning, and saving.

170

Raising earthworms.
Southern Regional 4-H Wildlife
Literature Committee. 1979.
This wildlife activity guide
covers information and
activities on raising
earthworms for fish bait. [2]
p. :. ill. Document available
from: Educational Aids,
National 4-H Council, 7100
Connecticut Avenue,
Washington, D.C. 20015.
Publication intended for:
Member, Elementary, Junior and
Senior High Levels. Learning
experience: Knowledge, skills,
practices. Decision making.
Careers, earning and saving.

171

**Record of wildlife
observations.**
Southern Regional 4-H Wildlife
Literature Committee. 1979.
This wildlife activity guide
covers information and
activities on recording
wildlife observations,
including planning field
trips, making animal census
charts, and making plant
presses and plaster casts of
tracks. A bibliography is
given. 5 p. :. ill. Document
available from: Educational
Aids, National 4-H Council,
7100 Connecticut Avenue,
Washington, D.C. 20015.
Publication intended for:
Member, Elementary, Junior and
Senior High Levels. Learning
experience: Knowledge, skills,
practices. Decision making.

172

**Safe 'n easy, 4-H motorcycle
manual and leader's guide.**
National 4-H Automotive Task
Force. 1979. This manual
covers riding motorcycles
safely, protection for riding,
driving fundamentals and
maintenance. A leader's
section includes skill
activities, meeting plans and
resource materials. 47 p. :. ill.
Document available from:
Educational Aids, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member, Leader and Senior
High Level. Learning
experience: Knowledge, skills,
practices. Decision making.
Personal growth.

173

**Safe 'n tasty guide to
bikepacking.**
Reynolds Metals Company. 1979.
This guide gives pointers on
preparing foods for
bikepacking trips. 4 p. :. ill.
Document available from:
Program Services, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member, Elementary and
Junior High Levels. Learning
experience: Knowledge, skills,
practices. Decision making.
Social.

174

**Safe 'n tasty guide to
charcoal grilling.**
Reynolds Metals Company. 1978.
This guide gives pointers on
charcoal grilling including
building a fire, equipment
needed, safety precautions,
recipes and cleanup. [4] p. :. ill.
Document available from:
Program Services, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member, Elementary and
Junior High Levels. Learning
experience: Knowledge, skills,
practices. Decision making.
Social.

175

**Safe 'n tasty guide to
overnight camping.**
Reynolds Metals Company. 1980.
This guide gives pointers on
overnight camping including
site selection, outdoor
cooking with recipes,
equipment needed and safety
precautions. [5] p. :. ill.
Document available from:
Program Services, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member, Elementary and
Junior High Levels. Learning
experience: Knowledge, skills,
practices. Decision making.
Social.

176

Safety for all seasons.
General Motors. 1975. This
handbook covers safety lessons
for a year round program. It
gives pointer on how to
conduct a successful safety
program, promoting safety,
offers suggested activities
and lists additional
resources. 29 p. :. ill.
Document available from:
Program Services, National 4-H
Council, 7100 Connecticut
Avenue, Washington, D.C.
20015. Publication intended
for: Member, Leader, Senior
High Level. Learning
experience: Knowledge, skills,
practices; Decision making;
Citizenship and community.

177

Safety for hunt seat riders.
Sabin, Sam W. 197-. This lesson sheet covers hunt seat riding and the safety principles involved including equipment, mounting, dismounting, riding in groups, road riding, emergencies and jumping. [5] sheets :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

178

Safety for hunt seat riders (worksheet).
Tutton, Jane S. 1977. This worksheet supports the learning concepts taught in a companion lesson sheet. Gives answers. [4] p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Conn. Ave., Washington, D.C. 20015. Publication intended for: Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

179

Selecting and using a saddle.
Sabin, Sam W. 1977. This lesson sheet covers styles of saddles, selecting the proper one, measuring, fitting and using saddles, saddle finishes and adjustments. [5] sheets :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

180

The sewing machine :. 4-H leader's guide. --.
National 4-H Council. 1978. This guide assists leaders in using two units of sewing machine member manuals-know the sewing machine & master the sewing machine. Includes sixteen- page pattern foldout. Educational Aids & Publications, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. viii, 33 p. :. ill. Part of a sequence. Publication suitable for: General. Leader material. Publication intended for adult level.

181

Sharing your cycling knowledge.

National 4-H Bicycle Committee. 1971. This pamphlet lists activities junior and teen leaders can do in support of the 4-H bicycle project. 2 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices. Leadership skills. Decision making. Personal growth. Citizenship and community.

182

Soils, leader's guide, Unit IIB.
National 4-H Plant and Soil Science Program Development Committee. 1970. Leaders guide gives activities supporting the companion member manual. 5 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making.

183

Soils, members manual, Unit IIB.
National 4-H Plant and Soil Science Program Development Committee. 1970. This manual covers types of soil, plant response to fertilizers, water holding capacity, soil structure, organic matter of soil, acidity, soil testing, soil maps and soil profiles. A record sheet and glossary are included. 20 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Junior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making. Personal growth.

184

Speak up young people.
Emerson, Dorothy. Jacobsen, B. J. Randell, Roscoe. 1973. This publication on public speaking pointers was written especially for those youth involved in citizenship and leadership training. 18 p. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member. Publication intended for: Junior High and Senior High Levels. Learning

experience: Knowledge, skills, practices.

185
Spotlight on management, a 4-H home management members' manual.

National 4-H Home Management Program Development Committee. 1976. This manual includes information on setting goals, making plans, following plans, checking results-management. Activities are included. 32 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving.

186
Spotlight on management, 4-H home management leader's guide.

National 4-H Home Management, 4-H Home Management leader's guide. 1976. This guide supports the unit 1 member manual with teaching guidelines. 28 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving.

187
Squirrel.

Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on squirrels, including types of squirrels and their habitats. 8 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Member, Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

188
Strengthening 4-H programs through affirmative action. Rutledge, Lloyd L. Pinches, Robert R. Cassell, Roy C. Basu, Arun C. 1979. Covers frequently asked questions on important Affirmative Action issues from a practical 4-H programming perspective. Does not address questions of a technical or legal nature.

Science and Education Administration-Extension, U.S. Department of Agriculture, 14th and Independence Avenue, Washington, D.C. 20250. 39 p. Not part of a sequence. Publication suitable for: General. Staff material. Publication intended for adult level.

189
Supplemental resources for small engines project. Schrock, Mark. 1979. This publication lists resources in support of the 4-H small engines project for use by leaders of the project. [4] p. Document available from: Program Services, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader.

190
Tanning skins. Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on the materials and procedures for tanning skins of mammals and snakes. 4 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making.

191
Tax exempt status of 4-H organizations authorized to use the 4-H name and emblem.

--. In question-answer format reviews (1) tax exempt status of 4-H organizations and affiliated groups and (1) types of contributions donors can claim as federal income tax deductions. Extension Service, U.S. Department of Agriculture, 14th and Independence Avenue, Washington, D.C. 20250. 15 p. Not part of a sequence. Publication suitable for: General. Staff material. Publication intended for adult level.

192
Taxidermy. Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on equipment needed and the procedure for taxidermy. This guide outlines steps in skinning and mounting

birds. 2 p. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making.

available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Family. Decision making. Careers, earning and saving. Personal growth.

193

Techniques of line driving. Sabin, Sam W. 1977. This lesson sheet covers the equipment needed, preparations and techniques of line driving and discusses some of the problems that may be experienced. [5] sheets :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

197

Teens entertain, a 4-H food-nutrition project leaders guide. Spindler, Evelyn B. Kelley, Fern S. 1977. This guide instructs leaders in the series of activities covered in the companion member manual. Teen nutrition habits are discussed. 8 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices.

194

Techniques of line driving (Worksheet). Tutton, Jane S. 1977. This worksheet supports the learning concepts taught in a companion lesson sheet. Gives answers. [4] p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Conn. Ave., Washington, D. C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

198

Teens entertain, a 4-H food-nutrition project members' manual. Spindler, Evelyn B. Kelley, Fern S., Cook, Frances, Duncan, Dorothy. Groppe, Christine, Olson, Phyllis, Hurley, Candace. 1977. This publication discusses diets and snacks in relation to teen activities and leisure time. Teen comparison charts for various foods are included. 31 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making. Social. Personal growth.

195

Teen scene. Ohio Cooperative Extension Service. 1980. This guide offers plans, teaching tools and activities for most affectively using the companion member manual on consumer education. 12 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Leadership skills. Decision making. Careers, earning and saving.

199

Touch with your eyes :. art appreciation in 4-H. McAuliffe, June C. 1980. This guide art activities is be be used by 4-H leaders, teachers and museum educators who conduct art experiences for youth. 39 p. :. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader; Elementary Level. Learning experience: Knowledge, skills, practices; Decision making; Social; Personal growth; Citizenship and community.

196

Teen scene. Wessel, Judith A. 1980. This manual, done in a magazine format, gives teens information on consumer education, the principles of becoming a smart consumer, ways to shop and advertising. [16] p. :. ill. Document

200

Tractor, Leader's guide.
National 4-H Petroleum Power Program Development Committee. Gooding, Richard II. Reasley, E. O. 1970. This guide offers demonstrations, teaching suggestions, and members' check-up answers for the 33 units of the four member manuals in tractor. 35 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving.

201

Tractor 1, Getting acquainted with your tractor.
National 4-H Petroleum Power Program Development Committee. Schrock, Mark. 1970. This manual gives first year instruction in the tractor program, including how a tractor operates, safety and maintenance. The manual is broken into nine units. Each unit includes a member worksheet. 46 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Junior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making.

202

Tractor 2, assuring safe efficient operation.
National 4-H Petroleum Power Program Development Committee. True, John A. 1976. This manual gives second year instruction in the tractor program, including tractor safety, servicing, and operating costs. The manual is broken into eight units. Each unit includes a member worksheet. 56 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Junior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving.

203

Tractor 3, Improving your skills.
National 4-H Petroleum Power Program Development Committee. Gooding, Richard D. II. 1970. This manual gives third year instruction in the tractor program including units on

ignition systems, hydraulic controls, power transmissions, trouble shooting and ownership costs. The manual is broken into eight units. Each unit includes a member worksheet. 56 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior and Senior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving.

204

Tractor 4, Machinery care and safety.
National 4-H Petroleum Power Program Development Committee. Schrock, Mark. 1976. This manual gives fourth year instruction in the tractor program, including safe use of farm machinery, transmitting power, and farm machinery management. The manual is broken into eight units. Each unit includes a member worksheet. 62 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Senior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving.

205

Training by driving.
Slemp, William H. 1977. This lesson sheet covers techniques in line driving horses including catching and haltering, teaching to lead and stand, saddling, using the first bit, using a running martingale, ground driving, riding and working outside a pen. [5] sheets : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

206

Training your dog for family living.
Hartman, Dennis A. 1977. This publication teaches basic dog training techniques and dog obedience. The manual is divided into seven lessons and includes leader instructions. 23 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue,

Washington, D.C. 20015.
Publication intended for:
Member, Elementary and Junior
High Level. Leader's guide
available. Learning
experience: Knowledge, skills,
practices. Family.

207

Trees, unit A - 4-H forestry program, leader's guide.
Burlison, Vernon H. 1978. This guide covers the teaching of companion member manual including meeting objectives, learning activities and sources of additional help. 31 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for General, Leader. Learning Experience: Knowledge, skills, practices; Decision making.

208

Trees, unit A, 4-H forestry program.
Burlison, Vernon H. 1980. This manual covers what a tree is, how it grows and reproduces, tree identification, and why trees are important. Content is divided into meetings. Activities and a glossary are included. 31 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Member, Junior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

209

Tricks for treats, a fun with foods project.
Cook, Frances. Spindler, Evelyn B., Kelley, Fern. Duncan, Dorothy. Groppe, Christine. Davis, Robert F. 1968. This publication includes lessons in elementary cooking, including nutrition information and menus, experiments, and a party planning chart. 34 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Elementary Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making.

210

Tricks for treats, a fun with foods projects, leaders' guide.
Cook, Frances. Spindler, Evelyn B., Kelley, Fern S.,

Duncan, Dorothy. Groppe, Christine, Davis Robert F. 1968. This guide instructs leaders in the series of meetings covered in its companion member manual. Food preparation, buying tips, science, nutrition and serving are included for each lesson. 12 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices.

211

Urban and backyard wildlife.
Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on urban and backyard wildlife-bird feeders and waterers, surveys and sanctuaries. 11 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary and Junior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Personal growth.

212

Urban Forestry, unit C-4, 4-H Forestry Program.
National 4-H Forestry Committee. Walker, George "Ted". 1980. This advanced unit in forestry covers the value of urban trees, urban tree problems, management, and related forestry activities. 12 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Leader and Senior High Level. Learning experience: Knowledge, skills, practices. Decision making. Personal growth.

213

Waterfowl management.
Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on waterfowl management including types of waterfowl, building ponds and nest boxes. 15 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making.

214

Western pleasure trail riding.
Bradley, C. Melvin. 197?. This lesson sheet covers western pleasure trail -- organizing the ride, rest stops, camping, safety and other tips. [5] sheets : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Social.

215

Western pleasure trail riding (worksheet).
Tutton, Jane S. 197?. This worksheet supports the learning concepts taught in a companion lesson sheet. Gives answers. [4] p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Conn. Ave., Washington, D.C. 20015. Publication intended for: Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Social.

216

Western saddles (structure & construction).
Sabin, Sam W. 197?. This lesson sheet covers the basic construction and use of Western saddles. [5] sheets : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

217

What the judge looks for in equitation classes.
Kiser, James J. 197?. This lesson sheet covers equitation for the three main types of styles: hunter, saddle and stock including individual tests, tack and attire, arms and hands and legs and feet positions for each. [5] sheets : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skill, practices; Decision making; Personal growth.

218

White-tailed deer.

Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on the white-tailed deer. Other references are given. 15 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making.

219

Wild turkey :. wildlife project.
Southern Regional 4-H Wildlife Literature Committee (U.S.). 1981. This wildlife activity guide covers information and activities on wild turkeys including their life history, habitat, hunting and turkey management. 8 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member: Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

220

Wildlife careers.
Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on wildlife careers, including types of jobs, qualifications, fish and wildlife associations. 11 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices. Decision making. Personal growth. Careers, earning and saving.

221

Wildlife damage control.
Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on wildlife damage control including traps, toxicants, repellents and predation on specific types of animals and birds. A bibliography is given. 11 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior and Senior High Levels. Learning experience:

Knowledge, skills, practices.
Decision making.

222

Wildlife ecology.

Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on wildlife ecology and inter-relationships, succession, food chains, life cycles, and communities. A bibliography is given. 19 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making.

223

Wildlife foods.

Southern Regional 4-H Wildlife Literature Committee. 1979. This wildlife activity guide covers information and activities on wildlife foods, including collecting and identifying seeds. A bibliography is given. 7 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making.

224

Wildlife project, member's manual.

Southern Regional 4-H Wildlife Literature Committee. 1979. This manual explains the use of the wildlife activity guide series and includes a wildlife worksheet. 11 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Member, Elementary, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

225

Women on horseback (worksheet).

Tutton, Jane S. 1977. This worksheet supports the learning concepts taught in a companion lesson sheet. Gives answers. [4] p. : ill. Document available from: Educational Aids, National 4-H

Council, 7100 Conn. Ave., Washington, D.C. 20015. Publication intended for: Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

226

Working with electricity, unit 3, leaders' guide.

National 4-H Electric Energy Program Development Committee. 1979. Leaders guide gives lesson outlines and suggests preparation for unit 3 member manual. 5 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving.

227

Working with electricity, unit 3, members' manual.

National 4-H Electric Energy Program Development Committee. 1979. This unit 3 manual explains the fundamentals of electricity for home wiring - wires, cords, connections, grounding, tools needed, and safety practices. Eight lessons with activities are included. 29 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

228

Working with wood and tools, unit I, member manual.

National 4-H Wood Science Committee. 1980. This manual introduces wood and using tools to the beginner, including marking and measuring, cutting wood, sanding and smoothing, driving and pulling nails, using glues and wood finishes. Includes working plans and a tool glossary. Replaces former "Adventures in Woodworking". 31 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making.

229
World atlas of 4-H and similar youth educational programs.
 Hutchcroft, Theodore. 1970. This atlas explains the youth education programs and shows the emblems of all 4-H type programs in the world. 40 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Member, Leader, Staff, Senior High Level. Learning experience: Knowledge, skills, practices.

230
Your bicycle and you, Unit 1.
 National 4-H Bicycle Committee. 1978. This pamphlet covers driving skills, bicycle safety, proper riding, parts of the bike, and bicycle maintenance. 4 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices. Decision making. Personal growth.

231
4-H ...
 1976. This illustrated booklet describes 4-H—who can belong, projects, how 4-H reaches youth, public and private support, and addresses of State Cooperative Extension Services. Extension Service, U.S. Department of Agriculture, 14th and Independence Avenue, Washington, D.C. 20250. 20 p. : ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for junior high level.

232
4-H Bicycle program, guide for leaders.
 National 4-H Bicycle Committee. 1976. This guide gives meeting guides and suggested activities for the three units of bicycle for members. A bicycle inspection form and a 50-question bike quiz are included. 21 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making. Citizenship and community.

233
4-H dog care and training project, leader's guide.
 Hartman, Dennis A. 1977. This publication instructs leaders in teaching a dog project. It includes levels of training and training guidelines, types of leaders, program suggestions, recognition and judging, and is designed to accompany a series of five member manuals. 11 p. *. ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices.

234
A 4-H economic and career education program involving 4-H donors.
 National 4-H Program Development Committee on Economics, Jobs & Careers. 1979. This guide explains how to conduct a local seminar for 4-H members on economic and career education, utilizing the talents of community donors. [6] p. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Leader, Staff. Learning experience: Knowledge, skills, practices; Leadership skills; Decision making; Careers, earning and saving; Citizenship and community.

235
4-H engineering woodworking, leader's guide.
 National 4-H Engineering Woodworking Development Committee. 1970. This guide covers a leader's role in instructing the four units of woodworking and planning meetings. Tools needed, reference material and a suggested scorecard for judging woodworking articles are included. 9 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making.

236
4-H horse program, leader's guide.
 U.S.D.A. Cooperative Extension Service. 1965. This guide outlines the job of a horse leader, objectives of the project, suggested demonstrations, and how to conduct home visits. 4 p. : ill. Document available from:

Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making.

237

4-H is ...
Science and Education Administration, Extension. 1978. Brief description of current 4-H program, including a list of all state Cooperative Extension Service addresses. Sea-Extension, U.S. Department of Agriculture, 14th and Independence Avenue, Washington, D.C. 20250, folder (3). Publication suitable for: General. Member material. Publication intended for junior high level.

238

4-H small engines, Unit I, member's manual.
Eaton, Edward O. 1979. This manual is an introduction to 4-cycle engines. It includes care, maintenance, operation and trouble shooting. Activities and demonstrations are included. 30 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member and Junior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making.

239

4-H small engines, Unit 1, Leader's Guide.
Eaton, Edward O. 1976. This guide assists leaders in teaching accompanying member manual. 12 p. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making.

240

4-H small engines, unit II, leader's guide.
Eaton, Edward O. 1979. This guide assists leaders in teaching accompanying member manual. 8 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Decision making.

241

4-H small engines, unit II, member's manual.
Eaton, Edward O. 1979. This manual is an introduction to 2-cycle engines. It includes maintenance, care, operation and trouble shooting. Activities and demonstrations are included. 11 p. : ill. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for Member, Junior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making.

ILLINOIS

242

Advanced livestock judging manual.
Witt, W. H. Carlisle, G. R. Ricketts, Gary. Fink, Mel. 1969. This publication explains in detail and illustrates the criteria for judging beef cattle, sheep, and swine. It includes several pages of photographs, a section on expressions used in livestock judging, and a section on recording and presenting the results of the judging. 20 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices.

243

Arts and crafts project, Illinois 4-H leader's guide.
University of Illinois (Urbana-Champaign). Cooperative Extension Service. 1967. In addition to giving some general advice on teaching methods, this publication lists questions (for 8 arts and crafts units) that leaders can use in evaluating design and technique. [4] p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving.

244

Can you get there from here?
Norman, Marilyn. Griffith, Walter E. 1979. This publication is a workbook designed to aid the reader in self evaluation and career planning. It provides space for writing about interests, feelings, hobbies and the jobs

they might lead to, and ways of getting help in pursuing a particular career. 8 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois, 61801. Publication intended for: Member and Junior High Level. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving. Personal growth.

245

Canning fruits and vegetables. Acker, Geraldine. Harris, Mary. 1976. This publication explains how to can fruits and vegetables. It includes a list of publications, provides general guidelines, discusses canning problems, and suggests ideas for demonstrations and talks. 5 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

246

Caring for children :. 4-H child development project. Howells, Chad. Pepoon, Lucille. Walker, Claretta. 1974. This manual explains how to plan and make business arrangements for child care jobs, and gives advice on caring for children of different ages. 19 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Family; Careers, earning and saving; Personal growth.

247

Cartooning, 4-H arts and crafts. Johnson, Walter M. 1972. This manual defines cartooning and its terms, discusses the qualities one must have to be a good cartoonist, and tells how to get started drawing cartoons. It also includes a list of other publications on the subject. [10] p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Careers, earning and saving.

248

Carving and casting :. 4-H arts and crafts. --. 1969. This manual is for a project on casting and carving with a wide variety of materials. Each section on a particular kind of material provides information on supplies, special points to remember, procedures, common mistakes, and finishing. State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, IL 61801. 15 p. : ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary level.

249

Ceramics :. 4-H arts and crafts. Fisher, Barbara. 1967. This publication describes the techniques involved in hand shaping, molding and casting, firing, and glazing clay objects. It defines some of the terms of ceramics and discusses preparation of the materials and care of equipment. 11 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Elementary. Leader's guide available. Learning Experience: Knowledge, skills, practices.

250

Checklist for planning a 4-H type expanded nutrition group program. Illinois Cooperative Extension Service. 1974. This one page publication contains a series of questions that leaders can use in planning and evaluating group programs on nutrition. 1 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Leadership skills.

251

Communications awareness. Scherer, Chris. Woodis, Ray. 1974. This manual defines communication, discusses communication problems, and suggests ways of communicating more effectively. [3] p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices.

252

Communications awareness, Leader's Guide. ---.
1974. This manual is a leader's guide to the first unit in a communications series. It lists helpful materials and resources and provides plans the leader can use in conducting communications projects. State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, IL 61801. 7 p. Not part of a sequence. Publication suitable for: General. Leader material. Publication intended for adult level.

253

Communications newswriting.
Illinois Cooperative Extension Service. 1974. This publication suggests ways to prepare for teaching the newswriting unit and provides detailed lesson plans for three meetings. It also contains a number of examples, quizzes, and other kinds of exercises designed to help the member learn about newswriting. 30 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Leadership skills.

254

Creative crochet - 4-H arts and crafts.
Berman, Janet. Berman, Jeffrey. 1974. Written for the beginning and advanced student of crochet, this manual describes both basic and elaborate stitches. It also covers equipment, materials, and important terms, explains how to make such useful items as rugs and handbags, and provides a brief bibliography. State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Ill. 61801. 23 p. : ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary level.

255

Dairy goat manual for beginning 4-H members.
Johnson, Ralph V. 1978. This manual covers raising a dairy goat for exhibition or sale. It discusses the necessary equipment, feeding and management. State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Ill. 61801. 20 p. : ill. Not part of a sequence. Publication suitable for: General. Member material. Publication extended for

elementary level.

256

Design, 4-H arts and crafts.
Fisher, Barbara J. 1974. This project manual discusses the basic elements of design, tells how to create a design, explains design principles, and suggests ways to use design for ornamentation. 7 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member; Junior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

257

Do your own thing, self-determined projects.
Illinois Cooperative Extension Service. 1978. This manual tells 4-H members how to select, plan, develop, and evaluate their own projects. [3] p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

258

Do your own thing, self-determined projects leaders guide.
Illinois Cooperative Extension Service. 1978. This publication suggests ways of helping 4-H members plan, develop, and evaluate their own projects. [1] p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Leadership skills; Decision making; Personal growth.

259

Exploring for insects.
Kuhlman, D. E. Stone, G. W. 1973. Provides complete instructions for collecting, preserving, and displaying insects. Explains in detail how to make the necessary equipment and includes a section on the characteristics and development of insects. 27 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member. Publication

intended for: Elementary Level. Learning Experience: Knowledge, skills, practices.

260

Facts about fabrics, bonded fabrics.

Siemen, Esther. 1971. This publication gives advice on selecting bonded fabrics, describes the steps involved in making garments from them, and provides care instructions. 2 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Junior High Level. Learning Experience: Knowledge, skills, practices.

261

Facts about fabrics, deep pile fabrics.

Siemen, Esther. 1972. This publication gives advice on selecting patterns for and on various aspects of making garments from deep pile fabrics. It also includes a section on care of these fabrics. [2] p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Junior High Level. Learning Experience: Knowledge, skills, practices.

262

Facts about fabrics, directional fabrics.

Mead, Marjorie. 1971. This publication gives advice on making garments from various kinds of directional fabrics. [2] p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Junior High Level. Learning Experience: Knowledge, skills, practices.

263

Facts about fabrics, durable press fabrics.

Mead, Marjorie. 1971. This publication tells how to select patterns and fabric for durable press garments, gives advice on making such garments, and provides pressing and care instructions. [2] p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Junior High Level. Learning Experience: Knowledge, skills, practices.

264

Facts about fabrics, plaid and striped fabrics.

Mead, Marjorie. 1971. This publication tells how to select plaid and striped fabrics and patterns for them. It also gives advice on some of the stages involved in making garments from these fabrics. [2] p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Junior High Level. Learning Experience: Knowledge, skills, practices.

265

Facts about fabrics, pressing equipment and techniques.

Pifer, Glenda. Mead, Marjorie. 1973. This publication explains how to buy and care for an iron and how to press garments. It gives special instructions for different kinds of fabrics. [4] p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Junior High Level. Learning Experience: Knowledge, skills, practices.

266

Facts about fabrics, sheer fabrics.

Sohn, Marjorie. 1971. This publication tells how to select sheer fabrics and gives advice on the various stages involved in making garments from them. [1] p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Junior High Level. Learning Experience: Knowledge, skills, practices.

267

Facts about fabrics, vinyl and other leather-like fabrics.

Sohn, Marjorie. 1972. This publication explains how to select leather-like fabrics, describes the steps involved in making garments from them, and provides care and pressing instructions. 2 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Junior High Level. Learning Experience: Knowledge, skills, practices.

268

Find yourself in 4-H.

University of Illinois (Urbana-Champaign). Cooperative Extension Service. 1981. This brochure describes the many experiences and opportunities that are available to young people through 4-H. Although the publication contains some references to Illinois, it could easily be adapted for use in another state. 1 pamphlet : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member; Junior High Level. Learning experience: Knowledge, skills, practices.

269

Flower arrangements, advanced unit.
Cooperative Extension Service. 1974. This project manual describes how to cut flowers and select containers for them and discusses the principles of line and balance, and color. Each section is followed by a series of study questions. Also included is a section that discusses and illustrates winter arrangements. 16 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

270

Flower arranging.
Culbert, John R. 1973. This publication tells how to select plant materials, how to cut and care for them, what kinds of containers and holders to use, what types of arrangements one can choose from, and how to evaluate the final product. Each section is accompanied with plenty of illustrations. Identical with Illinois Cooperative Extension Service Circular 1020. 14 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Junior High Level. Learning experience: Knowledge, skills, practices. Personal growth.

271

Foods and nutrition projects relate to developmental phases of youth.
Illinois Cooperative Extension Service. 1974. This publication lists foods and nutrition projects for various age groups. The projects are matched with particular

characteristics or needs of members of these age groups. 4 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Personal growth.

272

Freezing foods : a food preservation unit.
Acker, Geraldine. Harris, Mary. 1976. State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Ill. 61801. 24 freeze, how to prepare and package them, how long various foods can be frozen, and how to avoid certain problems. Publication intended for junior high level.

273

From egg to chick : a guide to the study of incubation and embryonic development.
Ridlen, S. F. Johnson, H. S. 1964. Designed for a project on incubating chick eggs, this manual describes how to build an incubator, what procedures to follow in using it, and how the egg and embryo develop. It also lists sources of additional information and teaching aids. State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Ill. 61801. 16 p. : ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary level.

274

Gardening Indoors.
Illinois Cooperative Extension Service. 1976. This project manual tells how to choose, pot, and care for house plants. It also explains how to start plants from seeds and cuttings and how to force bulbs indoors. 12 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Elementary Level. Learning Experience: Knowledge, skills, practices.

275

Getting leaders to help.
Illinois Cooperative Extension Service. 1974. This one page handout suggests ways of getting people to help organize and lead youth groups. 1 leaf. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois,

Urbana, Illinois 61801.
Publication intended for
Leader. Learning Experience:
Knowledge, skills, practices;
Leadership skills.

ill. Not part of a sequence.
Publication suitable for:
General. Leader material.
Publication intended for adult
level.

276
Getting started with a group of youth.
Illinois. University. #b
Cooperative Extension Service.
1976. This publication
describes how to prepare for
and conduct group meetings for
youngsters. 1 leaf. Document
available from: State 4-H
Leader, 47 Mumford Hall,
University of Illinois,
Urbana, IL 61801. Publication
intended for Leader. Learning
Experience: Knowledge, skills,
practices; Leadership skills.

277
Getting started with flowers.
Carbonneau, Marvin C. 1969.
This manual describes how to
start and maintain a flower
garden. In addition to
covering such basic topics as
preparing the soil, it
suggests ways of sharing the
garden with others. State 4-H
Leader, 47 Mumford Hall,
University of Illinois,
Urbana, IL 61801. 8 p. :.
ill. Not part of a sequence.
Publication suitable for:
General. Member material.
Publication intended for
elementary level.

278
Guaranteed payoff for your investment ...
University of Illinois
(Urbana-Champaign).
Cooperative Extension Service.
1981. This brochure tells
adults how they can become
involved in 4-H work. Although
the publication contains some
references to Illinois, it
could easily be adapted for
use in another state. 1
pamphlet :. ill. Document
available from: State 4-H
Leader, 47 Mumford Hall,
University of Illinois,
Urbana, Illinois 61801.
Publication intended for:
Member. Learning experience:
Knowledge, skills, practices.

279
Guidelines for 4-H horse shows in Illinois.
Russell, Mark A. Stone, G. W.
1978. This manual provided
general guidelines for the
management of 4-H horse and
pony shows as well as specific
information on the core show
classes and various
special-interest classes.
State 4-H Leader, 47 Mumford
Hall, University of Illinois,
Urbana, IL 61801. 30 p. :.

280
Guidelines for 4-H meat identification and evaluation contests: a resource for 4-H meat activity leaders.
University of Illinois
(Urbana-Champaign campus).
Cooperative Extension Service.
1981. This publication covers
eligibility, facilities,
products, judges, conduct,
meat classes, scoring,
supplies, and timing for meat
identification and evaluation
contests. [6] p. Document
available from: State 4-H
Leader, 47 Mumford Hall, 1301
W. Gregory St., University of
Illinois, Urbana, Illinois
61801. Publication intended
for: Leader; Adult Level.
Learning Experience:
Knowledge, skills, practices;
Leadership skills.

281
Helping the group evaluate their experiences.
Illinois Cooperative Extension
Service. 1974. This one page
handout gives advice on
getting youngsters involved in
the planning and evaluation of
activities. 1 leaf. Document
available from: State 4-H
Leader, 47 Mumford Hall,
University of Illinois,
Urbana, Illinois 61801.
Publication intended for
Leader. Learning Experience:
Knowledge, skills, practices;
Leadership skills; Decision
making.

282
Hi! I am an energy ant :. leader's guide.
Salzman, Harold H. 1978. This
manual is the leader's guide
of an energy program that is
designed for elementary
school children and that
includes a member workbook and
two slide sets with cassette
tapes. The leader's guide
provides an outline, a series
of questions about the slide
sets, and some suggested
activities. State 4-H Leader,
47 Mumford Hall, University of
Illinois, Urbana, Ill. 61807.
12 p. Not part of a sequence.
Publication suitable for:
General. Leader material.
Publication intended for adult
level.

283
Hi! I am an energy ant :. my name is energy action.
Salzman, Harold H. 1978. This
manual is part of a program

for teaching elementary school children about energy. It explains what sources of energy we now use, how we use them, and where we get them. The explanations are accompanied by drawings for the students to color and by puzzles and games. State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, IL 61801. 16 p. :. ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary level.

284

Illinois vegetable garden guide.
Vandemark, J. S. 1974. This publication offers ten steps to successful gardening and discusses common gardening problems. It covers such subjects as planning, soil preparation, pest control, and disease prevention. 40 p. :. ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois. Publication intended for: Member. Publication intended for: Junior High Level. Learning experience: Knowledge, skills, practices.

285

Illinois 4-H cat care project.
Illinois. University. #b Cooperative Extension Service. 1974. This publication is a brief workbook designed to help the reader keep track of supplies and equipment for a cat, its health record, general condition, and performance in cat shows. [4] p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices.

286

Illinois 4-H club officer's handbook.
Illinois Cooperative Extension Service. 1974. This publication gives instructions on planning meetings, describes the responsibilities of the various 4-H officers, relates the functions of standing committees, comments briefly on constitution and bylaws, and covers the terms and procedures of parliamentary practice. 8 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member, Junior High Level. Learning Experience:

Knowledge, skills, practices; Leadership skills; Personal growth.

287

Illinois 4-H horsemanship project.
Russell, Mark A. Hutton, Charles A. 1978. The last in a series on horsemanship, this publication is a workbook intended to prepare the reader for the 4-H horsemaster test. It contains sections on experience with horses, general knowledge of them, horse care, and horsemanship tests. 17 p. :. ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Senior High Level. Leader's guide available.

288

Illinois 4-H horsemanship project :. horseman unit.
Russell, Mark A. Hutton, Charles A. 1978. The second in a three-unit sequence, this manual presents requirements the 4-H'er must meet in order to advance from the novice to the horseman level. The requirements are divided into four categories: experience, knowledge, horse care, and horsemanship. 10 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices.

289

Illinois 4-H horsemanship project :. novice unit.
Russell, Mark A. 1978. This project manual lists the novice requirements in four areas: experience, knowledge, horse care, and horsemanship. The section on each area contains lists of questions and blanks in which the 4-H member can record experiences and achievements. 10 p. :. ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member; Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

290

Illinois 4-H wildlife conservation manual.
Labisky, Ronald, F. Edwards, William R. Bennett, George, W. Smith, Philip W. Graber,

Richard R. Sanderson, Glen C. 1969. The purpose of this publication is to acquaint 4-H members with the wildlife in Illinois. It includes general sections on natural resources and ecology, and additional sections that describe the main characteristics and habits of various animals found in the state. 60 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Junior High Level. Learning experience: Knowledge, skills, practices.

291
Involving members in the group meeting.
Illinois Cooperative Extension Service. 1974. This one page handout gives pointers on getting youngsters to participate in group meetings. 1 leaf. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Leadership skills.

292
Jellies, jams, and preserves: a food preservation unit.
Troftgruben, Judith. Acker, Geraldine. Harris, Mary. 1978. Intended for readers who have some experience in food preservation, this publication tells how to seal, process, label, and store jellied products. It discusses the basic ingredients of those products, describes experiments that demonstrate the importance of following recipes, and provides a list of booklets for further reading. [4] p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

293
Know your community 4-H project, education unit.
Haegle, Fred L. 1979. In describing various kinds of educational institutions, this publication encourages young people to think seriously about their future educational and career plans. It describes activities for 4-H members in different age groups that will help them learn about educational programs. 3 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois,

Urbana, Illinois 61801. Publication intended for Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making. ; Careers, earning and saving; Citizenship and community.

294
Know your community 4-H project, government unit.
Haegle, Fred L. 1979. This publication is designed to acquaint 4-H members with various levels and functions of government through discussion and activities. 4 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Citizenship and community.

295
Know your community 4-H project, health unit.
Haegle, Fred L. 1979. The purpose of this publication is to make 4-H members more informed about community health services and programs. It includes lists of activities for different age groups. 4 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Citizenship and community.

296
Know your community 4-H project, history, culture, and fine arts unit.
Haegle, Fred L. 1979. This publication discusses the effect of natural setting on the history of a community, the relation between culture and tradition, and the role of the fine arts in a community. It describes several projects designed to help 4-H members learn more about the history and cultural traditions of their communities. 3 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Elementary Level. Leaders guide available. Learning Experience: Knowledge, skills, practices; Citizenship and community.

297

Know your community 4-H project, leader's guide.
Haegele, Fred L. 1979. This publication is the leader's guide for a series of 4-H projects on the community. It lists the objectives of those projects, discusses various ways of viewing a community, and includes a chart showing how educational tools can be used for different age groups. 4 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Leadership skills; Citizenship and community.

298

Know your community 4-H project, natural resources unit.
Haegele, Fred L. 1979. This publication explains how the availability of natural resources affects communities and stresses the importance of conserving resources. It also describes activities intended to help 4-H members in different age groups learn about the natural resources in their communities. 4 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Citizenship and community.

299

Know your community 4-H project, production and marketing unit.
Haegele, Fred L. 1979. Publication defines the producer, discusses how production is divided among the members of a society and how it is affected by geography and technology, lists and gives examples of the types of business organizations, and explains how products are distributed to consumers. Describes activities intended to help 4-H members in different age groups learn about production and marketing. 5 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Citizenship and community.

300

Know your community 4-H project, recreation unit.
Haegele, Fred L. 1979. This publication discusses various kinds of recreation, such as family, commercial, and community; stresses the importance of coordinating them; and describes recreation projects for different age groups. 4 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family; Social; Citizenship and community.

301

Know your community 4-H project, religion unit.
Haegele, Fred L. 1979. This publication is part of a series designed to acquaint 4-H members with various aspects of their communities. This particular unit discusses the role of the church in the community and lists activities members can do to gain a better understanding of that role. 4 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Citizenship and community.

302

Know your community 4-H project, transportation and communications unit.
Haegele, Fred L. 1979. This publication encourages 4-H members through discussion and activities to think seriously about the various means of transportation and communication. 4 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Citizenship and community.

303

Know your community 4-H project, welfare unit.
Haegele, Fred L. 1979. This publication discusses various kinds of public and private welfare agencies and lists topics and activities intended to help 4-H members in different age groups learn about welfare programs. 3 p. Document available from: State

4-H Leader, 47 Mumford Hall,
University of Illinois,
Urbana, Illinois 61801.
Publication intended for
Member, Elementary Level.
Leader's guide available.
Learning Experience:
Knowledge, skills, practices;
Citizenship and community.

304

Leaders guide for child development project units.
University of Illinois
(Urbana-Champaign).
Cooperative Extension Service.
1973. This publication
contains lists of activities
for child development projects
in four areas: stories and
make-believe, art and music,
toys and play, and nature and
animals. [2] p. Document
available from: State 4-H
Leader, 47 Mumford Hall,
University of Illinois,
Urbana, Illinois 61801.
Publication intended for:
General; Leader. Learning
Experience: Knowledge, skills,
practices.

305

Leader's guide for the 4-H knitting project.
University of Illinois
(Urbana-Champaign).
Cooperative Extension Service.
1972. This leader's guide
describes the level of skill
one should expect from
beginning, intermediate, and
advanced students and suggests
projects for each group. It
also lists topics for
discussion or demonstrations.
3 p. Document available from:
State 4-H Leader, 47 Mumford
Hall, University of Illinois,
Urbana, Illinois 61801.
Publication intended for:
Leader. Learning Experience:
Knowledge, skills, practices.

306

Leader's guide for 4-H beekeeping projects.
Jaycox, Elbert R. 1972. This
publication outlines the
responsibilities of a
beekeeping project leader,
discusses the age group most
likely to be involved in this
project, describes activities
and events, and lists other
sources of information. 4 p.
Document available from: State
4-H Leader, 47 Mumford Hall,
University of Illinois,
Urbana, Illinois 61801.
Publication intended for:
Leader. Learning Experience:
Knowledge, skills, practices.

307

Leader's guide for 4-H horsemanship units.
1981. This leader's guide

describes the three units
(novice, horseman, and
horsemaster) that make up the
horsemanship project and the
four areas (experience,
knowledge, horse care, and
horsemanship) that make up
each unit. 1 pamphlet.
Document available from: State
4-H Leader, 47 Mumford Hall,
University of Illinois,
Urbana, Illinois 61801.
Publication intended for:
Leader. Learning experience:
Knowledge, skills, practices.

308

Leader's guide, 4-H type expanded nutrition program.
Cooperative Extension Service.
1974. This publication
provides a listing of
activities and methods leaders
can use in conducting
nutrition programs for youth.
2 p. Document available from:
State 4-H Leader, 47 Mumford
Hall, University of Illinois,
Urbana, Illinois 61801.
Publication intended for:
Leader. Learning experience:
Knowledge, skills, practices.
Leadership skills.

309

Learning to knit.
Mead, Marjorie. 1969. This
manual outlines knitting
projects for beginning,
intermediate, and advanced
students. The first section
explains basic techniques and
the selection of needles,
yarn, and tools. The remaining
sections cover progressively
more advanced skills. State
4-H Leader, 47 Mumford Hall,
University of Illinois,
Urbana, IL 61801. 32 p. : ill.
Not part of a sequence.
Publication suitable for:
General. Member material.
Publication intended for
elementary level.

310

Learning to sew.
Mead, Marjorie. Siemen,
Esther. Sohn, Marjorie. 1975.
This manual is divided into
two sections: one that
provides basic instruction in
fabric selection and use of
sewing tools and another that
covers more advanced
procedures such as selecting
and using commercial patterns.
Both sections give detailed
descriptions of various sewing
projects. 44 p. : ill.
Document available from: State
4-H Leader, 47 Mumford Hall,
University of Illinois,
Urbana, Illinois 61801.
Publication intended for:
Member; Elementary Level.
Learning Experience:
Knowledge, skills, practices.

311
Learning to sew, Illinois 4-H leader's guide.
 University of Illinois (Urbana-Champaign).
 Cooperative Extension Service. 1973. This leader's guide describes the sewing skills that girls 9 to 13 years old should be taught and suggests ways of helping them acquire those skills. [4] p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member. Learning Experience: Knowledge, skills, practices.

312
Leather craft, 4-H arts and crafts.
 Illinois Cooperative Extension Service. 1973. This publication defines the terms of leather work, lists and illustrates the necessary materials, discusses design of leather objects, explains various ways of ornamenting leather, and tells how to assemble and put a finish on the final product. 11 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Junior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices.

313
Let's start cooking.
 Acker, Geraldine. Gorham, Nyla. 1970. Designed for beginning cooks, this manual discusses basic cooking techniques, contains simple recipes for a variety of foods, and describes how to do instructive cooking experiments. State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, IL. 61801. 41 p. : ill. Part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary level.

314
Let's use demonstrations.
 Daigh, G. L. Cottingham, Erma. Gaehe, O. F. 1966. This publication describes how to prepare and give 4-H demonstrations with particular emphasis on organization, personal appearance, and manners. It also includes a work sheet to help the reader prepare the demonstration and a rating sheet to use in evaluating it. 7 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801.

Publication intended for Member, Elementary Level. Learning Experience: Knowledge, skills, practices; Citizenship and community.

315
Making a tailored garment.
 Mead, Marjorie. 1969. This publication describes each step in making a tailored garment. It also includes general sections on methods, supplies, patterns, and fabrics. 24 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices.

316
Meat evaluation :. beef carcasses.
 Carr, Tom R. Gast, Gerald G. 1981. This publication explains how to evaluate a beef carcass and discusses the characteristics that enable you to predict its quality and yield (includes full-color photographs). [4] p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, 1301 W. Gregory St., University of Illinois, Urbana, Illinois 61801. Publication intended for: Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

317
Meat evaluation :. pork carcasses.
 Carr, Tom R. Gast, Gerald G. 1981. This publication discusses the characteristics that affect the quality and yield of meat and explains how to evaluate a pork carcass (includes full-color photographs). [4] p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, 1301 W. Gregory St., University of Illinois, Urbana, Illinois 61801. Publication intended for: Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

318
Meat evaluation :. retail cut.
 Carr, Tom R. Gast, Gerald G. 1981. This publication explains how to identify cuts by their bone and muscle structure. [4] p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, 1301 W. Gregory St.,

University of Illinois,
Urbana, Illinois 61801.
Publication intended for:
Member; Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Family; Decision making.

319

**Meat evaluation :. 4-H
activity leader's guide.**
Lignell, Sandra Link. Carr,
Tom R. Gast, Gerald G. 1981.
This publication gives advice
on preparing members to
participate in meat judging
events and provides outlines
for seven meetings on meat
identification, evaluation,
and cookery. [4] p. Document
available from: State 4-H
Leader, 47 Mumford Hall, 1301
W. Gregory St., University of
Illinois, Urbana, Illinois
61801. Publication intended
for: Leader; Adult Level.
Learning Experience:
Knowledge, skills, practices.

320

Meat in your meals.
Illinois Cooperative Extension
Service. 1973. This
publication discusses the
nutritional value of meat,
gives advice on selecting it,
lists and illustrates various
cuts of meat, provides a
number of recipes, and
includes a general section on
planning and preparing meals.
17, 12 p. :. ill. Document
available from: State 4-H
Leader, 47 Mumford Hall,
University of Illinois,
Urbana, Illinois 61801.
Publication intended for:
Member and Senior High Level.
Learning experience:
Knowledge, skills, practices.

321

**Metal craft, 4-H arts and
crafts.**
Fisher, Barbara J. 1969. This
manual describes several
processes for working with
metal, lists the necessary
materials, and gives advice on
how to use these materials
safely. 11 p. :. ill. Document
available from: State 4-H
Leader, 47 Mumford Hall,
University of Illinois,
Urbana, Illinois 61801.
Publication intended for:
Member; Junior High Level.
Learning Experience:
Knowledge, skills, practices.

322

Milk and eggs in your meals.
Illinois Cooperative Extension
Service. 1973. This
publication tells about the
nutritional value of milk and
eggs, discusses various kinds
of milk products and their

care, discusses the use and
care of eggs, and provides a
number of recipes. It also
includes a section on meal
planning. 47 p. :. ill.
Document available from: State
4-H Leader, 47 Mumford Hall,
University of Illinois,
Urbana, Illinois 61801.
Publication intended for:
Member and Senior High Level.
Learning experience:
Knowledge, skills, practices.

323

**Mosaics :. 4-H arts and
crafts.**
Fisher, Barbara J. 1973. This
manual gives detailed
instructions for a mosaics
project, including information
on design, the necessary
materials and tools, and on
evaluating the final product.
State 4-H Leader, 47 Mumford
Hall, University of Illinois,
Urbana, IL 61801, . 7 p. :.
ill. Not part of a sequence.
Publication suitable for:
General. Member material.
Publication intended for
elementary level.

324

**Nature crafts, 4-H arts and
crafts.**
Regnier, E. H. Regnier, Mary
J. 1973. This manual explains
how to collect and store
materials for a nature craft
project. It gives instructions
for making items from such
materials as plants, wood,
stone, clay, and cornhusks. 19
p. :. ill. Document available
from: State 4-H Leader, 47
Mumford Hall, University of
Illinois, Urbana, Illinois
61801. Publication intended
for: Member and Elementary
Level. Leader's guide
available. Learning
experience: Knowledge, skills,
practices.

325

**News writing, communications
project.**
Scherer, Chris. Woodis, Ray.
1975. This project manual
describes in detail how to
write various kinds of news
stories. It also lists
suggested activities and
includes sections on writing
style, usage, and preparation
of copy. 11 p. Document
available from: State 4-H
Leader, 47 Mumford Hall,
University of Illinois,
Urbana, Illinois 61801.
Publication intended for
Member, Junior High Level.
Leader's guide available.
Learning Experience:
Knowledge, skills, practices.

326

Organizing county 4-H poultry judging schools and contests.

Ridlen, S. F. Haegele, F. L. Johnson, Hugh S. 1973. This publication lists the various classes of eggs and live and ready-to-cook birds that should be used in the contest, tells what equipment to use and where to get it, describes the proper location, suggests who to consult for advice and help, explains in detail how to set up the contest, and includes a reference section. 8 leaves. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Junior High Level. Learning experience: Knowledge, skills, practices. Decision making. Personal growth.

327

Outdoor meals.

Illinois Cooperative Extension Service. 1975. This publication discusses the three types of outdoor meals, provides recipes, lists the necessary equipment, and explains how to build cooking fires. 17 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member; Senior High Level. Learning Experience: Knowledge, skills, practices.

328

Outdoor meals.

Illinois Cooperative Extension Service. 1975. This publication discusses the three types of outdoor meals, provides recipes, lists the necessary equipment, and explains how to build cooking fires. 17 p. ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

329

Painting, 4-H arts and crafts.

Barger, Gary W. Johnson, Walter M. 1972. This publication provides an introduction to the basics of painting. It defines painting terms, discusses various kinds of paints and brushes, explains the arrangement of colors on the palette, outlines painting procedures, and includes a short bibliography. 16 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall,

University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Elementary Level. Leader's guide available. Learning experience: Knowledge, skills, practices.

330

Pastry in your meals.

Cottingham, Erma. 1973. This publication lists all the steps involved in making good pastry, provides a number of recipes with illustrations, and includes a rating scale to determine the quality of the final product. There is also a general section on meal planning. 12 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member, Senior High Level. Learning Experience: Knowledge, skills, practices; Family.

331

Pickles and relishes, a food preservation unit.

Troftgruben, Judith. Acker, Geraldine. Harris, Mary. 1978. Designed for club members with some experience in canning foods, this publication discusses the ingredients, equipment, processes, and problems involved in making pickles and other pickled products. It includes a list of publications that have recipes and detailed instructions and describes experiments that demonstrate the importance of using the right ingredients. [3] p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

332

Planning a program for the group.

Illinois Cooperative Extension Service. 1974. This one page handout provides a detailed outline for leaders to use in planning group activities. 1 leaf. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices; Leadership skills; Decision making.

333

Planning tours and field

trips.

Illinois Cooperative Extension Service. 1974. This publication describes how to plan, conduct, and evaluate tours and field trips. [2] p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Leadership skills.

334

Printing, 4-H arts and crafts.

Fisher, Barbara J. 1967. This publication defines printing terms, discusses materials used in printing, and describes how to use several different printing processes (relief printing, block printing, stencil printing, silk screening). 11 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Junior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices.

335

Program assistants can help youth groups.

Illinois Cooperative Extension Service. 1976. This publication describes briefly how program assistants can help mothers start youth programs on nutrition, eating habits, and other topics related to food. 1 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Leader. Learning Experience: Leadership skills.

336

Put 4-H in your family.

University of Illinois (Urbana-Champaign). Cooperative Extension Service. 1981. This brochure describes to adults some of the opportunities and advantages that 4-H offers their children. Although the publication does contain some references to Illinois, it could easily be adapted to use in other states. 1 pamphlet : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Learning experience: Knowledge, skills, practices; Family.

337

Safety.

Johnson, Barbara H. Hogsett, Ordie. 1975. This manual discusses safety in the home, on the street, in sports and recreation, and on the farm. It also includes sections on fire prevention and control, and first aid. 19 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member; Junior High Level. Learning experience: Knowledge, skills, practices; Family; Citizenship and community. Leader's guide available.

338

Safety for all seasons, a year-round guide to better living for 4-H youth and leaders.

General Motors. 1977. This publication explains in step-by-step fashion how to plan and conduct a 4-H safety program. It outlines twelve units covering situations in which safety training is needed and comes with a series of safety posters. 29 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Citizenship and community.

339

Sewing with wool.

Mead, Marjorie. 1971. This publication explains how to select and shrink wool fabrics, and discusses many of the steps involved in making wool garments. 2 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Junior High Level. Learning Experience: Knowledge, skills, practices.

340

Should you smoke?

O'Reilly, Lawrence B. 1970. This publication discusses the harmful effects of cigarette smoking and describes several 4-H projects on smoking and health. [7] p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Junior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices.

341

Should you smoke? leader's guide to 4-H health activity.
O'Reilly, Lawrence B. 1970. Publication discusses various approaches to educating youth about the effects of smoking and recommends a rational approach. Includes an extensive list of educational materials for various age groups and provides the addresses of health organization offices throughout Illinois. 11 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Leader. Publication intended for: Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making.

342

Show what you have done.
Illinois Cooperative Extension Service. 1974. This one page handout tells how to plan displays, demonstrations, and other activities that can be used to show the accomplishments of youth groups. 1 leaf. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices; Leadership skills.

343

Sketching and drawing :. 4-H Arts and Crafts.
Cairns, Gloria. Johnson, Walter M. 1972. This manual provides advice on drawing techniques, definitions and illustrations of important artistic terms, descriptions and drawings of materials, and a fairly extensive bibliography. State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, IL 61801, . 16 p. : ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary level.

344

Speaking up for 4-H :. a 4-H public speaking activity.
Hare, Alice. Stone, G. W. Brochreide, W. E. 1969. This publication tells the 4-H member how to prepare and present speeches. [4] p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Elementary Level. Learning Experience:

Knowledge, skills, practices;
Citizenship and community.

345

Stitchery, 4-H arts and crafts.
Fisher, Barbara J. 1975. This publication treats nearly every aspect of stitchery projects. In doing so it defines terms, provides historical background, lists materials, gives advice on design, and describes and illustrates various stitches. 7 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

346

Switch on to fun and learning.
Illinois Cooperative Extension Service. 1974. The purpose of this publication is to teach teenagers between the ages of 16 and 19 to share their knowledge of electricity with 8- to 11-year-old youngsters. It gives tips on understanding and teaching youngsters, tells how to organize a class and what topics to cover, and provides a sample lesson plan. 11 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices. Personal growth. Leadership skills.

347

Tree planting for you.
Bulkley, W. F. 1969. The most advanced unit in a series on forestry, this publication describes four tree planting projects: forest plantations, windbreaks, shelterbelts, and garden nurseries. It tells how to select species of trees, how to prepare the area, how to plant trees, and how to care for them. It also includes sections on exhibits and demonstrations and a list of other publications. 39 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

348

Weaving, 4-H arts and crafts.
Fisher, Barbara J. 1968. This manual covers both textile and basket weaving. It describes how to make and use several kinds of looms and discusses the preparation and care of reed. 11 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member; Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

349
What's luckier than finding a 4-leaf clover?.
University of Illinois (Urbana-Champaign). Cooperative Extension Service. 1981. Intended primarily for elementary-school-age children, this brochure describes various kinds of 4-H activities. 1 pamphlet : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Elementary Level. Learning experience: Knowledge, skills, practices.

350
Where are you going?.
Norman, Marilyn. Griffith, Walter E. 1977. This publication helps 4-H'ers set goals and encourages them to consider what kind of work best fits their life-styles. 8 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving.

351
Where the action is with food.
Hoerr, Sharon L. 1979. This publication provides a series of guidelines for 4-H food demonstrations. It gives tips on such topics as sanitation, presentation, and posters and also includes a rating sheet for evaluating the demonstration. 7 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

352
Where the action is with food, 4-H Leader's guide.
Hoerr, Sharon L. 1979. This publication is designed to aid the 4-H leader in conducting food demonstration contests. It accompanies another 4-H publication entitled Let's Use Demonstrations. 5 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Leader. Learning experience: Knowledge, skills, practices.

353
Who are you?.
Norman, Marilyn. Griffith, Walter E. 1977. This manual helps 4-H'ers establish goals and make career decisions. It does this through lists and charts readers can use to examine their values and personality traits. 8 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

354
Yeast breads in your meal, 4-H member's project book.
Cottingham, Erma. 1973. This publication discusses and illustrates the ingredients of yeast bread products, the methods used in baking them, and the most common causes of failure. It also includes a number of recipes and a more general section on meal planning. 12 p. : ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices. Family.

355
You and your clothes, project guide for leaders and members.
Mead, Marjorie. 1972. This publication assumes some knowledge of sewing on the part of the 4-H member. It outlines a project for making a nontailored garment and lists other publications that can be used in conjunction with this project. 2 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member, Leader, Junior High

Level. Learning Experience:
Knowledge, skills, practices.

356

You buy clothing :. 4-H member's handbook.
Kimmelshue, Florence. 1962. This manual explains how to make sensible clothing purchases. It stresses the importance of carefully evaluating your clothing needs and judging the quality and fit of garments. 25 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving.

357

You learn to bake.
Gorham, Myla. Acker, Geraldine. 1974. Emphasizing basic cooking techniques, this publication is written primarily for beginning cooks. It contains sections on various categories of foods, tells how to serve baked foods, discusses good manners and nutrition, and includes experiments designed to give the reader a better understanding of cooking techniques. 32 p. :. ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices. Family.

358

You Score with Nutrition.
Dow, Ruth McNabb. 1978. This publication stresses the importance of nutrition and encourages readers to consider the kind and amount of food they eat. It includes sections on snacks and breakfast and suggests ideas for talks and demonstrations on nutrition. 9 p. :. ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for member, junior high level. Leader's guide available. Learning experience: Knowledge, skills, practices.

359

You Score with Nutrition, Leader's Guide.
Dow, Ruth McNabb. 1978. This manual outlines a program on nutrition designed for both

teens and preteens. It includes instructions for games and other activities and provides a list of resources on nutrition. 14 p. :. ill. Document available from: State 4-H Leader, Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Leader. Learning experience: Knowledge, skills, practices ; Social.

360

You're a model every day :. an evaluation guide for girls in 4-H clothing projects.
Mead, Marjorie. Siemen, Esther. 1978. This brochure is designed to help 4-H girls evaluate the clothing they make and other aspects of their appearance. 1 pamphlet. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Junior High Level. Learning Experience: Knowledge, skills, practices.

361

4-H action presentations.
Illinois. University. #b Cooperative Extension Service. 1979. This publication gives pointers on making 4-H presentations in such places as shopping malls, fairs and classrooms. 1 pamphlet :. ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois, 61801. Publication intended for Member, Elementary Level. Learning Experience: Knowledge, skills, practices; Citizenship and community.

362

4-H advanced livestock science manual.
Wickersham, T. W. 1967. Intended primarily for the advanced student, this publication includes detailed discussions of animal nutrition, nutrient requirements, animal reproduction, and genetics. It gives particular stress to the practical application of scientific knowledge to the raising of cattle, swine, and sheep. The section on genetics, for example, is followed by sections on improving livestock herds. 39 p. :. ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices.

363

4-H Beekeeping manual, Unit I :. How bees live.
Jaycox, E. R. 1974. The introductory unit of a three-unit series on beekeeping, this manual provides information on starting and caring for a bee colony, the history of beekeeping in Illinois, the regulation of beekeeping, and problems that may arise. State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, IL 61801. 7 p. :. ill. Part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary level.

364

4-H beginning livestock judging manual.
Fink, Melvin. 1966. This manual provides a list of pointers to help the 4-H member develop a judging system and includes sections on judging beef cattle, sheep, and hogs. 8 p. :. ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for member. Publication intended for elementary level. Learning Experience: Knowledge, skills, practices.

365

4-H bird study.
Lyon, Richard G. 1974. This project manual tells how to study birds, suggests other sources of information, gives descriptions of some families of birds, and lists a number of birds that are common in Illinois. 9 p. :. ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for member. Publication intended for elementary level.

366

4-H child development project :. fun with children. --.
1975. State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, IL 61801. This manual gives instructions for entertaining preschool children, with emphasis on stories and make-believe, art and music, toys and play activities, and nature activities. 24 p. :. ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary level.

367

4-H citizenship in action.
Illinois. University. #b. Cooperative Extension Service. 1969. This publication discusses the meaning of citizenship, explains the responsibilities of citizens in a democratic society, tells how to become a better citizen, and lists a number of projects and activities 4-H members can use to learn more about citizenship. 7 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Elementary Level. Learning Experience: Knowledge, skills, practices; Personal growth; Citizenship and community.

368

4-H community involvement activity.
Illinois Cooperative Extension Service. 1979. This publication is designed to give 4-H members a start toward involvement in community activities, programs, and organizations. It includes a chart showing various opportunities for community involvement. 5 p. :. ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices. Citizenship and community.

369

4-H five year room plan workbook.
Illinois. University. #b. Cooperative Extension Service. 1975. This publication outlines a systematic plan for refurbishing a room. Divided into five year-long phases, the plan involves such activities as rearranging present furnishings, acquiring new ones, and replacing wall finishes and floor coverings. 23 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois, 61801. Publication intended for member, senior high level. Learning experience: Knowledge, skills, practices : Family ; Decision making.

370

4-H is for ...
University of Illinois (Urbana-Champaign). Cooperative Extension Service. 1981. Intended for both young people and adults, this brochure describes what 4-H has to offer. Although the

publication contains some references to Illinois, it could easily be adapted for use in other states. 1 pamphlet :. ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

371
4-H Leader's guide for judging food products.
 Illinois Cooperative Extension Service. 1973. This publication gives general advice on judging food products and descriptions of the qualities various foods should have. Each description is accompanied with a form judges can use in rating foods. 13 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Leader. Learning Experience: Knowledge, skills, practices.

372
4-H poultry manual, unit 1.
 Bidlen, S. F. Johnson, H. S. Haegele, F. L. 1974. The first in a series of poultry projects, this publication describes how to brood and grow chicks. It includes sections on housing, feeding, and control of diseases and explains how to prepare birds for show and for marketing. 20 p. :. ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Member, Elementary Level. Learning Experience: Knowledge, skills, practices; Careers, earning and saving.

373
4-H poultry manual, Unit 2.
 Johnson, H. S. Bidlen, S. F. Haegele, F. L. 1974. A thorough guide to poultry project, this publication provides an extensive list of terms, describes the necessary facilities, gives guidance in choosing hens, provides instructions on several aspects of caring for them, gives advice on grading and marketing eggs, and tells how to share the project with others. 20 p. :. ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Senior High Level. Learning experience:

Knowledge, skills, practices.
 Decision making. Social.
 Careers, earning and saving.

374
4-H sheep manual, unit 1.
 Simms, Richard H. Daigh, George L. 1964. Written for beginning 4-H members with lamb projects, this publication tells how to select a lamb and how to feed and care for it. It also discusses equipment the member will need and explains how to prepare for shows. 11 p. :. ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices. Careers, earning and saving.

375
4-H Tractor Maintenance Program, Illinois Tractor Operators' Contest.
 Siemens, John C. 1980. This publication tells how to conduct a 4-H tractor operator's contest. It includes a section on the organization of the contest, a series of suggested rules concerning the written and practical examinations and two- and four-wheel driving events, a list of safety rules, and score cards for the safety and driving events. 4 p. :. ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for Leader. Learning Experience: Knowledge, skills, practices.

376
4-H Tractor Program.
 Illinois Cooperative Extension Service. 1974. The purpose of this manual is to teach 4-H members about tractor safety. It also includes sections on the instrument panel, tractor controls, and maintenance. Each section is accompanied by a worksheet and quiz. 50 p. :. ill. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Member and Junior High Level. Learning experience: Knowledge, skills, practices.

377
"4-H type" expanded nutrition programs.
 Illinois Cooperative Extension Service. 1974. This publication describes how to

begin and conduct various types of nutrition programs for youth in low income urban areas. 4 p. Document available from: State 4-H Leader, 47 Mumford Hall, University of Illinois, Urbana, Illinois 61801. Publication intended for: Leader. Learning experience: Leadership skills.

INDIANA

378

Advanced beekeeping methods.

Abrams, Robert. Harris, Todd. Matthew, D. L. 1979. This manual suggests projects in developing expert beekeeping skills. Hive increases, experimentation and research, and special projects are included with reference books and pamphlets listed. 15 p. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

379

Advanced clothing.

Rupel, Annabel J. 1979. This manual provides exercises in developing judgement in planning a wardrobe and selecting clothes; increasing skill in accessorizing for the "total" look; and increasing construction skills. 4 p. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Senior High Level. Learning Experience: Knowledge, skills, practices.

380

Advanced flower project.

Boger, Allen E. Wott, John A. 1979. This manual provides information and skills for growing roses, bulbs and herbaceous flowering perennials. Other activities included are hanging baskets and dried arrangements. 43 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

381

Advanced food preservation.

State Food Preservation Committee. 1977. This manual provides information on

storing foods, drying fruits and food inventory. It includes judges check lists for jellies, jams and canned pickles and relishes. 19 p. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

382

Advanced geology.

Frickly, Dr. Edward L. Caldwell, William E. 1980. This manual provides suggestions for expanding knowledge of geology through creative study. It includes collections, educational boxes, exhibits, references and specimen record inventory sheets. 15 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Decision making.

383

Advanced 4-H forestry division.

Lott, E. J. Liming, A. N. Fix, W. L. 1970. This manual contains projects such as tree planting; forestry quiz board; log and tree measurement; collecting and mounting herbarium specimens; and, forestry reading and essay. 47 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Senior High Level. Learning Experience: Knowledge, skills, practices.

384

All about annual flowers.

Boger, Allen E. Wott, John A. 1975. This manual describes what annual flowers are, how to plant them and how to care for them. It includes planning a garden and choosing a site. 19 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices.

385

All American foods.

State Foods Committee, Purdue University. Maddox, Lois. 1978. This manual presents favorite recipes in simple menus. It includes tips on buying, planning ahead, serving, experiments, and clean-up. A check list for muffins and quick breads is introduced. Portions of the manual were adapted from National 4-H Council publication having the same name. 39 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for Member, Elementary Level. Learning Experience: Knowledge, skills, practices.

386

Aquatic science.

Caldwell, William E. Oberthur, Mary. 1970. This manual is designed to allow flexibility in choosing depth of involvement in the project. It teaches scientific recording practices and good data collection. 19 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Decision making.

387

Arranging flowers and terrariums.

Boger, Allen E. Wott, John A. 1976. This manual provides information on arranging flowers, making corsages and working with terrariums. It includes design principles for floral arrangements and judges check lists for exhibits. 27 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

388

Beads and cereals.

State Foods Committee, Purdue University. Maddox, Lois. 1980. This manual presents information on making and storing baked products and using pasta and cereal products. Recipes, a casserole chart, and judges check lists are included. 19 p. : ill. Document available from: 4-H Department, Purdue University,

Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices.

389

Beef manual.

Nelson, Larry A. 1978, 1973. Manual is grouped into three project areas: breeding herd management, market beef and consumer education. Member can take the project as many years as desired. Covers all divisions. 4-H Department, Agricultural Administration Building, Purdue University, West Lafayette, Indiana, 47907. 51 p. : ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary, junior, senior high, and adult levels.

390

Canning vegetables.

State Food Preservation Committee. 1976. This manual provides information on using a pressure canner, storing fresh produce and using good consumer practices. It includes development of an inventory system for foods. 23 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana, 47907. Publication intended for: Member and Junior High Level. Learning experience: Knowledge, skills, practices.

391

Caring for your bicycle.

State 4-H Bicycle Project Committee. 1978. Member learns bicycle signals, signs and laws. Manual gives more difficult games and skills and longer hikes than Division I. Manual includes activities with fill-in-the-blanks. 4-H Department, Agricultural Administration Building, Purdue University, West Lafayette, Indiana 47907. 31 p. : ill. Part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary and junior high level.

392

Clothing.

Rupel, Annabel J. Gotwals, Lois. 1969. This manual provides information on selecting and using patterns and material; and sewing zippers, waistbands and hems. It includes sections on

buying, modeling and caring for clothes. 27 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for Member, Elementary Level. Learning Experience: Knowledge, skills, practices.

dress or sports outfit, vest or poncho, and a glossary. 46 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for Member, Junior High Level. Learning Experience: Knowledge, skills, practices.

393

Clothing I.

Indiana. State Clothing Subcommittee. Mar. 1976, Re-run 2/76. Manual teaches basic sewing skills, how to use a sewing machine and to choose fabrics. Child has choice to make two of eight sewing projects. 4-H Dept. Agricultural Administration Building, Purdue University, West Lafayette, Indiana 47907. 39 p. : ill. Part of a sequence. Publication suitable for: General. Member material. Publication intended for: Elementary level.

397

Discovering electricity :. 4-H Division I.

Bitler, Chris B. 1969. This manual teaches through activities, what electricity is, how we control it with circuits, its safe use and how it is related to magnets and magnetism. 16 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices.

394

Clothing V, VI & VII.

Rupel, Annabel J. 1973. This manual provides information about clothing color, line and design; consumer information on fabrics and accessories; construction techniques; care and use of garments; and a glossary. 58 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

398

Electricity works for you :. advanced electricity.

Bitler, Chris B. 1969. Using this manual, a member can work in a chosen area of electricity; heating and cooling, lighting, power, electronics, consumer buying, better methods or careers. 10 p. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member; Senior High Level. Learning Experience: Knowledge, skills, practices.

395

Clothing III.

Rupel, Annabel. 1970. This manual provides information on making a dress or jumper and blouse, using a sewing machine, and fitting and pressing. Good consumer practices and grooming are included. 51 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for Member, Elementary Level. Learning Experience: Knowledge, skills, practices.

399

"Emergency" recreation kit.

Jones, Gordon. 1979. This publication contains cards for a recreation file and a small billfold "emergency folder" for successful game leading. Games, songs and dances are included. 23 p. in various pagings : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

396

Clothing IV.

Rupel, Annabel J. 1978. This manual continues skills learned in previous manuals in the series. It has information on making a school or sports

400

Exploring the world of plants and soils.

Indiana Cooperative Extension Service. 1974. This manual uses experiments to show how

plants grow and form leaves, stems, roots, flowers and seeds. Included is a section on soil and a glossary. 22 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana, 47907. Publication intended for: Member and Elementary. Learning experience: Knowledge, skills, practices.

401

Freezing fruit.

State Food Preservation Committee. 1977. This manual provides information on freezing fruits, anti-darkening agents, thawing and serving frozen fruits and choosing commercially frozen fruits. Descriptive photographs and charts are included. 23 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana, 47907. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices.

402

Fruits and vegetables.

State Foods Committee, Purdue University. Maddox, Lois. 1980. This manual presents information on nutritional value, buying, storing, preparing and serving of fruits and vegetables. Recipes and sections on herbs and spices and white sauces are included. 23 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Senior High Level. Learning experience: Knowledge, skills, practices.

403

Fun foods.

State Foods Committee, Purdue University. Maddox, Lois. 1978. This manual is aimed at teens and emphasizes preparation of nutritious snacks. It includes a judges check list, a trouble shooter list for cakes and a calorie use chart. Portions of manual were adapted from National 4-H Council publication having the same name. 39 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Junior High Level. Learning experience: Knowledge, skills, practices.

404

Geology :. Division III.

Caldwell, William E. Matthew, Dave. Schuder, Don. 1967. This manual serves as a guide to further independent learning about rocks, fossils or minerals. Suggestions for exhibits and other activities are included. 11 p. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Elementary Level. Learning experience: Knowledge, skills, practices; Decision making.

405

Geology leaders guide.

Prickey, Edward L. Caldwell, William E. 1969. This guide gives leaders basic geology information, resources, ideas for workshops and clinics, guidance on leadership of advanced projects and information on conducting field trips. 12 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Leader. Learning experience: Knowledge, skills, practices.

406

Growing and using plants.

Indiana Cooperative Extension Service. 1976. This manual uses experiments to show where plants grow, how plants are used, how to grow some unusual plants and how climate affects plants. 19 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices.

407

Growing plants indoors.

Boger, Allen E. Wott, John A. 1975. This manual provides information and skills for growing plants indoors. It included preparing planters, providing the right environment and a section on forcing bulbs. 23 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Elementary and Junior High Level. Learning experience: Knowledge, skills, practices.

408

Home environment :. Division I.

Breiner, Janice G. Badenhop, Suzanne B. 1980. This manual explores ways to make a room attractive and to care for it. It includes using color, making items, and learning to keep things organized. 23 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Elementary Level. Learning experience: Knowledge, skills, practices.

409

Identifying horticultural crops :. a manual for judging teams.

Chamberlain, Juliann K. Peek, William L. 1980. This publication trains coaches and members of judging, information and identifying teams to identify horticultural crops, learn quality characteristics and answer questions or solve horticultural problems. 63 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Leader, Senior High Level. Learning experience: Knowledge, skills, practices.

410

Learning about electricity :. Division II.

Bitler, Chris B. 1980. This manual teaches how to make and use extension cords and trouble lights. It also provides information on electrical circuits, fuses, and care of appliances. 23 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices.

411

Learning about tree seeds.

Lott, E. J. Fix, W. L. Liming, A. N. 1970. This manual provides basic information on tree seeds. It includes an illustrated chart, directions for preparing an exhibit and a judge's score card. 11 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member and Elementary Level. Learning experience:

Knowledge, skills, practices.

412

Learning about trees.

Miller, F. T. Lott, E. J. 1970. This manual provides information on parts of a tree, conservation, and collecting and identifying leaves for an exhibit. It includes a judge's score card and trees check list. 15 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana, 47907. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices.

413

Learning for leadership :. 4-H Junior Leadership -- Division I.

Gosney, Charles A. 1968. This manual is a guide for learning what makes a good leader. It includes required and optional activities to gain leadership skills, report forms and evaluation sheets. 12 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended: Member, Senior High Level. Learning Experience: Knowledge, skills, practices; Leadership skills.

414

Learning to freeze.

State Food Preservation Committee. 1976. This manual provides information on choosing foods for freezing, packaging materials, labeling and storing frozen foods. It includes directions with photographs for freezing berries. 15 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana, 47907. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices.

415

Let's go fishing :. 4-H Wildlife Division 2.

Krauch, H. C. 1965. This manual includes basic information on fish; parts of a fish; the food chain; methods of sport fishing and descriptions, habits and requirements of different species. 16 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration

Building, West Lafayette, Indiana 47907. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices. 1980 insert sheet included.

#16

Living with leadership :. 4-H junior leadership -- Division II.

Gosney, Charles A. 1968. This manual is a guide for using skills and techniques of leadership learned in Division I. It includes required and optional exercises, report forms and evaluation sheets. 12 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Senior High Level. Learning Experience: Knowledge, skills, practices; Leadership skills.

#17

Making a rope halter.

Warner, R. J. Moeller, N. J. 1979. This publication gives a step-by-step description of the proper way to make a rope halter. Illustrations are included. 1 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

#18

Making fruit specialties.

State Food Preservation Committee. 1977. This manual provides information on making jam, jellies, conserves, marmalade and preserves. It includes sections on freezing prepared foods and using preserved food in meals. 23 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana, 47907. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

#19

Marketing pickles and relishes.

State Food Preservation Committee. 1977. This manual provides information on making pickles, relishes and brined products. It includes sections on management of food storage

and meal planning with preserved foods. 19 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

#20

Mastering bicycle skills.

State 4-H Bicycle Project Committee. 1979. Member will learn how to make bearing cone adjustments, maintain bicycle spokes, and choose bicycle accessories. Highway bicycling activities, formation driving and advanced games and safety are covered. 4-H Department, Agricultural Administration Building, Purdue University, West Lafayette, Indiana, 47907. 23 p. :. ill. Part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary and junior high level.

#21

Mealtime magic.

State Foods Committee, Purdue University. Maddox, Lois. 1978. This manual emphasizes planning and cooking whole meals and table setting and decoration. Five cooking experiments, a glossary, weights and measures, and food group charts are included. Portions of the manual were adapted from National 4-H Council publication having the same name. 39 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for Member, Elementary Level. Learning Experience: Knowledge, skills, practices.

#22

Meats.

State Foods Committee, Purdue University. Maddox, Lois. 1980. This manual presents information on buying and cooking meats, poultry, fish and meat alternates and their nutrition. A bones display check list and a meats chart are included. 27 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices.

423

Milk and milk products.

State Foods Committee, Purdue University. Maddox, Lois. 1980. This manual presents information on nutritional value, use and storage of milk and milk products. Recipes for dairy products, a chart of cheese brands, and glossary are included. 19 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices.

424

Official handbook of the Indiana 4-H horse & pony program.

Indiana State 4-H Horse and Pony Advisory Committee. 1979. This manual includes objectives and purposes of the horse and pony program, official rules and policies, specific rules for classes, a glossary and horse show management considerations. [58] p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Leader, Junior High Level. Learning experience: Knowledge, skills, practices.

425

People in my world.

Rupel, Annabel J. 1979. This project manual is a guide for international education. It involves learning about people anywhere in the world through exploring differing ideas, living patterns, values and programs. 39 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Family; Social; Personal growth.

426

People in my world.

Rupel, Annabel J. 1979. Manual is an activity and reference book for international programs and cultural exchange. Member can use book for a 4-H project or an activity. All ages can participate. 4-H Department, Agricultural Administration Building, Purdue University, West Lafayette, Indiana 47907. 38 p. : ill. Not part of a sequence. Publication suitable for: General. Member

material. Publication intended for elementary, junior and senior high level.

427

Preserving meats, poultry and fish.

State Food Preservation Committee. 1976. This manual provides information on freezing and canning meats, fish and poultry. It includes ideas for good consumer practices in purchasing meat and food inventory. 31 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building West Lafayette, Indiana, 47907. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

428

Preserving vegetables and fruits.

State Food Preservation Committee. 1977. This manual provides information on freezing vegetables, buying frozen vegetables, making frozen jelly and jams and canning acid foods. Descriptive photographs and charts are included. 27 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana, 47907. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices.

429

Rabbits, rabbits, rabbits ...

Long, Norman D. 1975. This manual provides information on choosing a breed, housing, feeding, managing and showing rabbits. Sections on dressing and suggested exhibits and glossary are included. 39 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana, 47907. Publication intended for member, elementary, junior and senior levels. Learning experience: Knowledge, skills, practices.

430

Science project, geology :. Division-I -- pebble pups.

Caldwell, William E. 1964. This manual provides information on collecting, identifying and displaying rocks and minerals. An explanation of equipment needed, pictures, score card, labels and exhibit cards are

included. 25 p. : ill.
Document available from: 4-H
Department, Purdue University,
Agricultural Administration
Building, West Lafayette,
Indiana 47907. Publication
intended for: Member,
Elementary Level. Learning
Experience: Knowledge, skills,
practices.

431

**Science project, Geology :.
Division II.**

Caldwell, William E. 1978.
This manual provides
information on the collection
and study of minerals and
fossils. Pictures, maps,
labels, field trip record
sheets and resource materials
are included. 29 p. : ill.
Document available from : 4-H
Department, Purdue University,
Agricultural Administration
Building, West Lafayette,
Indiana 47907. Publication
intended for: Member,
Elementary Level. Learning
Experience: Knowledge, skills,
practices.

432

**Science project, weather :.
Division III.**

Shaw, R. H. 1967. This manual
provides information about how
clouds form, cloud types and
color of the sky. It includes
ideas for weather
demonstrations and exhibits.
10 p. : ill. Document
available from: 4-H
Department, Purdue University,
Agricultural Administration
Building, West Lafayette,
Indiana 47907. Publication
intended for: Member,
Elementary Level. Learning
Experience: Knowledge, skills,
practices.

433

**Serving through leadership:.
4-H junior leadership --
Advanced Division.**

Gosney, Charles A. 1968. This
manual is a guide for further
using skills and techniques of
leadership through assisting
individual members, groups,
adults and working with mass
media. 16 p. : ill. Document
available from: 4-H
Department, Purdue University,
Agricultural Administration
Building, West Lafayette,
Indiana 47907. Publication
intended for: Member, Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Leadership skills.

434

Sharing bicycle fun.

State 4-H Bicycle Project
Committee. 1979. Member
chooses activities from five

major headings (maintenance,
games, safety, touring and
racing), keeps a notebook and
completes a 100-mile minimum
touring and camping trip. 4-H
Department, Agricultural
Administration Building,
Purdue University, West
Lafayette, Indiana 47907. 6
p. : ill. Is part of a
sequence. Publication suitable
for: General. Member material.
Publication intended for
senior high and adult level.

435

The Soybean project.

Swearingen, Marvin. Hankins,
B. J. Peek, Bill. June 1978.
Manual covers Divisions I-IV
and Advanced and gives sixteen
activities such as seed
germination, conducting a
herbicide survey, determining
harvest losses, and cooking
with soybeans. 4-H Dept.,
Agricultural Administration
Building, Purdue University,
West Lafayette, Ind. 47907. 39
p. : ill. Not part of a
sequence. Publication suitable
for: General. Member material.
Publication intended for
elementary, junior high,
senior high and adult levels.

436

Special occasions.

State Foods Committee, Purdue
University. Maddox, Lois.
1980. This manual emphasizes
creative, independent planning
of entertainment for family
and friends. Menus and recipes
are included as idea-starters
for parties and special
dinners. 19 p. : ill.
Document available from: 4-H
Department, Purdue University,
Agricultural Administration
Building, West Lafayette,
Indiana 47907. Publication
intended for Member, Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Family; Leadership
skills; Social.

437

Teens entertain.

State Foods Committee, Purdue
University. Maddox, Lois.
1978. This manual emphasizes
planning, preparing and giving
parties. It presents recipes,
tips and techniques for making
yeast products, and outdoor
cooking. A judges check list
is included. Portions of the
manual were adapted from
National 4-H Council
publication having the same
name. 43 p. : ill. Document
available from: 4-H
Department, Purdue University,
Agricultural Administration
Building, West Lafayette,
Indiana 47907. Publication
intended for Member, Junior
High Level. Learning
Experience: Knowledge, skills,

practices; Family.

438

Tricks for treats.

State Foods Committee, Purdue University. Maddox, Lois. 1978. This manual presents basic nutrition information, easy recipes and simple explanations of cooking skills. Experiments, helpful tricks, check-ups and planning ahead sections are included. Portions of the manual were adopted from National 4-H Council publication having the same name. 38 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for Member, Elementary Level. Learning Experience: Knowledge, skills, practices.

439

Trimming hooves.

Moeller, N. J. Warner, R. J. 1979. This publication gives a step-by-step description of proper trimming of cattle hooves for better animal health and comfort, and selection of tools and location. [2] p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member. Learning experience: Knowledge, skills, practices.

440

Understanding the honey bee.

Abrams, Robert. Harris, Todd. Matthew, D. L. 1976. This manual gives information on the basic facts of beekeeping: types of bees, honey and wax they produce, plants that attract bees and equipment a beekeeper needs. 35 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices.

441

Using and protecting our forests.

Fix, W. L. Lott, E. J. 1970. This manual provides information on how forests are used, care and protection of trees, identifying Indiana trees and how to collect and exhibit leaves. 15 p. : ill. Document available from: 4-H Department, Purdue University,

Agricultural Administration Building, West Lafayette, Indiana, 47907. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices.

442

Using electricity :. Division IV.

Gosney, Charle A. Bitler, Chris B. 1980. This manual expands on knowledge gained in previous manuals in the series. In addition, it introduces the field of electronics, consumer buying techniques and careers. 27 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices.

443

Weather.

Caldwell, William. Smith, L. H. Newman, J. E. 1977. This manual provides information on building weather instruments, definitions of weather terms, and how to keep weather records. It includes plans for building simple instruments. 22 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices.

444

Weather :. Division I.

Smith, Lester H. Zimmerman, Jerry. Macklin, Jerry M. 1965. This manual and coloring sheet provide the opportunity to learn about weather, its effects, and what causes it to change; observe and keep records; and use simple weather instruments. 15 p. : ill., col. fold. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices.

445

Weather leaders guide.

Caldwell, William E. 1970. This guide provides suggestions for programs, tours, workshops and clinics,

exhibits, demonstrations, and field trips. It also includes plans for a weather station and information on careers. 23 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Leader. Learning experience: Knowledge, skills, practices.

446

Wood and its uses.

Lott, E. J. 1970. This manual provides information on Indiana woods, their properties and uses. It includes directions for an exhibit. 11 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices.

447

Woodworking, advanced.

Gosney, Charles A. 1970. This manual provides information on the care and use of power tools, sharpening of tools, and joining of wood. Included are working plans for several projects. 77 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member and Senior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices.

448

Woodworking, beginner.

Gosney, Charles A. 1970. This manual provides basic information on kinds of woods, reading drawings and using hand tools and wood fasteners. Included are working plans for several projects. 43 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member and Elementary Level. Leader's guide available. Learning experience: Knowledge, skills, practices.

449

Woodworking, intermediate.

Gosney, Charles A. 1970. This manual provides information on care and use of tools, sharpening tools, uses of wood fasteners and wood finishes.

Included are working plans for several projects. 47 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member and Junior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices.

450

Woodworking leaders guide.

Indiana Cooperative Extension Service. 1970. This booklet gives leaders suggestions on handling project meetings. Included are techniques to add interest, demonstration ideas, meeting outlines and a woodworking judge's score card. 7 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Leader. Learning experience: Leadership skills.

451

Working with electricity :. Division III.

Bitler, Chris B. 1969. This manual teaches how to make a lamp and outdoor portable lights. It provides information on care of major appliances and care and selection of electric motors. 19 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices.

452

Working with honey bees.

Abrams, Robert. Harris, Todd. Matthew, D. L. 1978. 35 p. Document available from: 4-H Department, Purdue University, .

453

Working with honey bees.

Abrams, Robert. Harris, Todd. Matthew, D. L. 1978. This manual gives information on carrying out a annual beekeeping operation. The result of this project is production of extracted, chunk, or cut comb honey. Organization sheets are provided. 35 p. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication

intended for: Member and Junior High Level. Learning experience: Knowledge, skills, practices.

Lafayette, Ind. 47907. v, 57 p. Not part of a sequence. Publication suitable for: General. Leader and staff material. Publication intended for junior high, senior high and adult levels.

#54

The world of flowers.

Boger, Allen E. Wott, John A. 1974. This manual provides basic information and skills for growing healthy plants and flowers. It includes activities and judges check lists for exhibits. 15 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices.

#58

4-H advanced wildlife.

Krauch, H. C. 1970. This manual is designed to provide practical training in different phases of wildlife activity. It includes eight projects with suggestions and exhibit requirements for each. 29 p. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

#55

You and your bicycle.

State 4-H Bicycle Project Committee. 1978. Member learns bicycle history, choice and maintenance. Fourteen introductory activities, with fill-in-the-blanks, cover safety and skill information. Bicycle games are introduced. 4-H Department, Agricultural Administration Building, Purdue University, West Lafayette, Indiana 47907. 31 p. :. ill. Part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary level.

#59

4-H Crafts guide for leaders.

Coombs, Kenneth L. High, Sharon. 1971. This craft guide, for 4-H and other leaders, covers program activities, principles of good design, and color. Eighteen crafts for 9 to 19 year-olds are included. 40 p. :. ill. Document available from: Publications Distribution Center, 10 Woodward Hall, University of Rhode Island, Kingston, Rhode Island 02881. Publication intended for: Leader, Senior High Level. Learning experience: Knowledge, skills, practices; Family; Decision making; Social; Careers, earning and saving; Personal growth.

#56

Your bicycle community.

State 4-H Bicycle Project Committee. 1979. Member learns advanced maintenance for bearings, pedals, brakes and spokes. Member conducts a bicycle safety program and participates in a 50-mile minimum round-trip bicycle tour. 4-H Department, Agricultural Administration Building, Purdue University, West Lafayette, Indiana, 47907. 23 p. :. ill. Part of a sequence. Publication suitable for: General. Member material. Publication intended for junior and senior high level.

#60

The 4-H potato project.

Peek, Bill L. Romanowski, Roman R. 1978. This manual includes information on selection of potato patch, planting, weed and pest control, harvesting and storing potatoes. It stresses the importance of good record-keeping. [30] p. in various pagings. :. ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

#57

1980-81 Indiana 4-H projects and recognition handbook.

Breiner, Janice. Gosney, Charles. Oct. 1979. Manual is 4-H Department's reference tool for Indiana State 4-H policies, projects also recognition and award programs. Publication is revised every two years. 4-H Dept. Agricultural Administration Building, Purdue University, West

#61

4-H swine manual & record.

Mayrose, V. B. Foster, R. J. Holm, Eric L.- 1978. This

manual provides information on selection of breed, care, feeding, fitting and showing of swine. It includes a project on consumer information on pork for members without pigs. 31 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

#62

4-H wildlife.

Krauch, H. C. Lott, E. J. 1980. This manual includes sections on game mammals, fur bearers and game birds. It emphasizes the goal of game management: to make the land produce annual crops of wild game. 23 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member and Junior High Level. Learning experience: Knowledge, skills, practices.

#63

4-H Wildlife :. Division I.

Krauch, H. C. 1972. This manual explains what wildlife includes and how it is necessary to our well-being. It introduces Indiana wildlife and the ideas of wildlife conservation. 12 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills practices.

#64

4-H wildlife :. Division III.

Fix, W. L. Lott, E. J. P Krauch, H. C. 1970. This manual provides basic information on birds, including habitat and migration. It emphasizes birds found in Indiana and includes a check-list for sightings. 12 p. : ill. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices.

#65

Arc welding project guide..

Davidson, Stan. 1978. States project objectives, list things members should learn in the project and gives specific activities the members might carry out to do the learning. The guide is divided into three units to match the Iowa welding publications. [2] p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

#66

Beef cattle project guide.

Iowa Cooperative Extension Service. 1979. Guide is divided into three levels. Lists project objectives. Lists things members should learn in the project and gives specific activities the members might carry out to do the learning. 4 p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

#67

Birds as a 4-H pet project.

Iowa Cooperative Extension Service. 1973. Gives information on housing, feeding, handling, training, breeding, and health care of birds. Adapted from Minnesota. 2 p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

#68

Camping project guide.

Stein, Sue. 1979. States objectives for the project. Lists things members should learn and gives specific activities the member might carry out to do the learning. Includes brief bibliography. 6 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Leadership.

Cats as a 4-H pet project.
Iowa Cooperative Extension Service. 1978. Gives information on housing, housebreaking, feeding, handling, breeding, and health care of cats. Adapted from Minnesota. [3] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

470

Choosing a pet as a 4-H pet project.

Iowa Cooperative Extension Service. 1980. Gives a quick rundown on the habits, needs, and characteristics of the most popular pets. Adapted from Minnesota. 2 p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

471

Citizenship project guide.

Pals, Diana. 1978. Selected learning objectives are collated with citizenship project activities. Includes suggestions for beginners, intermediates, and advanced. Listing of possible community service projects. 1 pamphlet : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Leadership skills; Personal growth; Citizenship and community.

472

Climatology project guide.

Iowa Cooperative Extension Service. 1974. States project objectives, lists things members should learn in the project and gives specific activities the members might carry out to do the learning. The guide is divided into units to match the Iowa produced Climatology publications. [2] p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

473

Commodity marketing project guide.

Iowa Cooperative Extension Service. 1974. States project objectives. Lists things to learn on topics such as marketing distribution and utilization and gives activities members may wish to carry out to do the learning. [3] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Senior High Level. Learning experience: Knowledge, skills, practices; Careers, earning and saving.

474

Conservation project guide.

Iowa Cooperative Extension Service. 1974. States project objectives, lists things members should learn in the project and gives specific activities the members might carry out to do the learning. [2] p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

475

Creative clothing - moving on.

Yep, Jacquelyn. Ingels, Lois. Bishop, Marie. 1975. This workbook lets an intermediate learn to select, care for and construct clothing. Includes information on hair styles, personality types, fabrics and construction. Publications Distribution, Iowa State University, Ames, Iowa 50011. 56 : ill. Part of a sequence. Publication suitable for: General. Member material. Publication intended for junior high levels.

476

Creative clothing - opening the door : unit 1, reference manual for member.

Yep, Jacquelyn. Ingels, Lois. Bishop, Marie. 1975. This workbook lets a beginner develop skills in selection, care, and construction of clothing. Includes grooming, posture, and choosing a first bra. Publications Distribution, Iowa State University, Ames, Iowa 50011. 44 p. * ill. Part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary level.

477

Creative visual art leader's guide.

Stout, JaneAnn. 1978. Written to help leaders help 4-H'ers become aware of environment through exploration and experimentation with visual art form this and other cultures. Designed to select the process and materials according to intended use of finished product. Gives program presentation ideas. [13] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning experience: Knowledge, skills, practices.

478

Creative visual art project guide :. fiber.

Stout, Jane Ann. Warne, Lois. 1978. This guide suggests project goals and activities for beginning and advanced members in the creative visual art-fiber project. Activities center around the following topics: understanding fiber - how yarn is made, its history, how it's used; safety, evaluation and finishing touches. Different fiber techniques are identified. [3] p. Document available from: Publications Distribution - Printing and Publications Bldg., Iowa State University, Ames, IO 50011. Publication intended for: Member; Elementary Level; Junior and Senior High Level. Leader's guide available. Learning Experiences: Knowledge, skills, practices.

479

Creative visual art project guide :. paper.

Stout, Jane Ann. Warne, Lois. 1976. Lists ideas for projects made of paper. Examples: Origami, guilling. Gives suggestions for activities to understand paper. Includes evaluation criteria and reference list. Publications Distribution, Iowa State University, Ames, Iowa 50011. 3 p. Part of a sequence. Publication suitable for: General. Member material. Publication intended for: elementary, junior high, and senior high levels.

480

Creative visual art project guide :. paper.

Stout, JaneAnn. Warne, Lois. 1977. This guide suggests project goals and activities for members in the creative visual art-paper project. Activities center around: Understanding paper, how it's made, its history and use;

safety, evaluation, and finishing touches. A variety of activities involving hand shaping, collaging, embedding, folding and crumpling are listed. [3] p. Document available from: Publications Distribution - Printing & Publications Bldg., Iowa State Univ., Ames, IO 50011. Publication intended for: Member; Elementary Level; Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

481

Creative visual art project guide, Chalk, carbon and pigment.

Stout, JaneAnn. 1978. Includes ideas on leaf prints, rubbings, various types of painting, sketching, tole painting, block printing, charcoal, and rosemailing. [4] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

482

Creative visual art project guide, Clay.

Stout, JaneAnn. 1977. Includes free form, sculpture, wheel work, glaze, casting, china, painting. Information on understanding the media, finishing, safety, evaluation, and sharing skills. [4] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

483

Creative visual art project guide, fiber.

Stout, Jane Ann. Warne, Lois. 1976. Describes things members may wish to learn about fiber media and gives suggestions for activities and projects. [3] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for Low Income, Physically Handicapped, Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making.

484

Creative visual art project guide, Glass and plastic.
 Stout, Jane Ann. 1978. Includes ideas on stained glass, collage, enameling, etching, casting resin, acrylic work, molding. [4] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

485
Creative visual art project guide, Leather.
 Stout, JaneAnn. 1977. Includes ideas on collages, lacing, dyeing, painting, weaving, tooling, carving. [3] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

486
Creative visual art project guide, Metal.
 Stout, JaneAnn. 1978. Includes ideas on tooling, etching, wire sculpture, mobiles, jewelry. [3] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

487
Creative visual art project guide, Nature materials.
 Stout, JaneAnn. 1978. Includes ideas on reed basketry, dipped candles, sand casting, soap making, rock polishing, seed collage, corn husk item, pine cone. [4] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

488
Creative visual art project guide, Textiles.
 Stout, JaneAnn. 1977. Includes ideas on printing, dyeing, quilting, soft sculpture, collage, applique. [3] p. Document available from: Publications Distribution, Iowa State University, Ames,

Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

489
Creative visual art project guide, Wood.
 Stout, Jane Ann. 1977. Includes ideas on carving, nail hole relief, collage, sculpture. [4] p. Publication intended for: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

490
The credit column, by Nick and Penney.
 Iowa Cooperative Extension Service. 1979. Questions with answers on figuring finance charges, pros and cons of credit cards, cash on credit purchases, co-signers. Includes word search of credit terms. [4] p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making.

491
Crop production - corn project, leader's guide.
 Benson, Garren. 1974. Detailed plans for three meetings to help leaders help 4-H'ers to build project-related knowledge and skills. Includes worksheet to adjust recommendations from soil test report. 8 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning experience: Knowledge, skills, practices; Decision making.

492
Crop production - soybean project, leader's guide.
 Benson, Garren. 1974. Detailed plans for three meetings to help leaders help 4-H'ers to build project-related skills and knowledge. 7 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning experience: Knowledge, skills, practices; Decision making.

#93

Crop production - soybean project, member's guide. Benson, Garren. 1977. States objectives. Requires at least two acres. Includes record sheets for planning, dates of specific field operations, crop growth and development observations, rainfall, temperatures, yield determination requirements and rules. [12] p. in various pagings. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

#94

Cross-cultural awareness through Africa. African Cultural Heritage Advisory Committee. 1979. Eleven modules designed to develop an understanding of Africa's cultural heritage. Modules cover foods, personal appearance and crafts. Slide and script available for each unit. Adapted from Michigan State University. 1980 cost of piece was \$11.00. 287 p. in various pagings. :. ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Staff. Learning experience: Knowledge, skills, practices; Family; Social; Personal growth; Citizenship and community.

#95

Dairy...calves and heifers, a 4-H dairy project workbook. Regional Committee of Extension Dairy Specialists. Orth, Ron. 1978. The guide covers selection, milk and milk products, dairy animal health, dairy animal nutrition, breeding, reproduction, economics, leadership and careers. Includes worksheets. A North Central Region Extension publication. 67 p. :. ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Decision making; Careers, earning and saving.

#96

Dairy...Cows and management :. a 4-H dairy project workbook. Regional Committee of Extension Dairy Specialists. Orth, Ron. 1978. The guide covers dairy cattle and man, herd health, feeding,

selection, reproduction, the milk plant, milking, records, buying and selling dairy cattle. Includes record forms. A North Central Region Extension publication. 71 p. :. ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Decision making; Careers, earning and saving.

#97

Dairy project guide. Iowa Cooperative Extension Service. 1978. The guide is written to be used with regionally produced 4H-392-BX and 4H-392-CX. States project objectives, lists things members should learn in the project and gives specific activities that members might carry out to do the learning. Learnings and activities are age graded. [4] p. :. ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

#98

Discovering 4-H. Kruse, Sue. Brandt, Gail. McCormick, Martha. 1979. An informational, recruitment piece for prospective members. Contains brief explanations of emblem, pledge, what members do, projects, clubs, meetings and the county extension office. A companion piece for parents is available. [14] p. :. ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member; Elementary Level. Leader's guide available.

#99

Discovering 4-H for parents. Kruse, Sue. Brandt, Gail. McCormick, Martha. 1979. An informational piece for parents of prospective members. Gives a very brief overview of 4-H and describes ways parents can make the 4-H experience more meaningful. A return card is included for a parent to check their commitment for helping with the club. 1 pamphlet :. ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader.

500

Dog project guide.

Iowa Cooperative Extension Service. 1979. States project objectives, lists things members should learn in the project and gives specific activities the members might carry out to do the learning. Learnings and activities are age graded. [4] p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Careers, earning and saving.

501

Electric/Electronic project guide.

Iowa Cooperative Extension Service. 1980. States project objectives, lists things members should learn in the project and gives specific activities the members might carry out to do the learning. The guide is divided into units to match the nationally produced electric and electronic publications. 5 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

502

Entomology project guide.

Iowa Cooperative Extension Service. 1975. States project objectives, lists things members should learn in the project and gives specific activities the members might carry out to do the learning. Learnings and activities are age-graded. [4] p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

503

Extension Recreation Programs, club camping.

Stein, Sue. 1977. Designed to help leaders help 4-H'ers to build project knowledge and skills and confidence in making own decisions. Bibliography of nine titles. Covers the steps in planning a club camping experience. 4 p. : ill. Document available from: Publications Distribution, Iowa State

University, Ames, Iowa 50011.

Publication intended for:

Leader. Learning experience:

Knowledge, skills, practices.

504

Extension Recreation Programs, Cooking over campfire coals.

Stein, Sue. Olson, Phyllis. 1977. Designed to help leaders help 4-H'ers to build project related skills and knowledge and confidence in making own decisions. 4 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning experience: Knowledge, skills, practices.

505

Fish as a 4-H pet project.

Iowa Cooperative Extension Service. 1973. Gives information on housing, selection, feeding, and health care of aquarium fish. Adapted from Minnesota. 2 p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior, and Senior High Levels. Learning experience: Knowledge, skills, practices.

506

Food and nutrition, leader's guide, units 1-11-111.

Olson, Phyllis. Esbeck, Ramona. 1978. Designed to help leaders help members to build project-related knowledge and skills and experience personal growth. Includes expected learnings, concepts, program suggestions for local 4-H clubs, suggestions for food and nutrition exhibits. Bibliography. 65 p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning experience: Knowledge, skills, practices.

507

Forest leaf collection :. unit I.

Maynard, Charles. Wray, Paul. 1977. This publication provides guidelines for a leaf collection project including pressing leaves, mounting dried leaves, preparing and exhibiting the collection. 5 p. : ill. Document available from: Publications Distribution - Printing and Publications Bldg., Iowa State University, Ames, Iowa 50011. Publication intended for: Member; Elementary Level.

Learning Experience:
Knowledge, skills, practices.

508

Forestry project guide.

Wray, Paul H. 1979. States project objectives, lists things members should learn in the project and gives specific activities the members might carry out to do the learning. Contents divided into four sections to match four Iowa forestry publications. [3] p. :. ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

509

Gerbils as a 4-H pet project.

Iowa Cooperative Extension Service. 1973. Gives information on shelter, feeding, handling, breeding, and health of gerbils. Adapted from Minnesota. [1] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

510

Get high on life.

Iowa Cooperative Extension Service. 1980. Written to develop awareness of personal value development, that values are reasons we act a certain way, that values can and do change, that values are affirmed by actions and relationships. Four related exercises. 5 p. :. ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning experience: Decision making; Personal growth.

511

Growth of a corn plant---overview.

McCormick, Martha. Morris, J. Charles. 1973. This leader resource packet/publication identifies meeting outlines and activities intended to arouse interest in the crops and plant projects and to create an awareness of how corn plants develop. Eight program components from which to choose are offered-roll call ideas on uses of corn products, crossword puzzle, an

attention-getter activity, etc. 24 p. :. ill. Document available from: Publications Distribution-Printing & Publications Bldg., Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices.

512

Guinea pigs as a 4-H pet project.

Iowa Cooperative Extension Service. 1973. Gives information on housing, feeding, handling, grooming, health care, and breeding of guinea pigs. Adapted from Minnesota. [1] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

513

Hamsters as a 4-H pet project.

Iowa Cooperative Extension Service. 1973. Gives information on shelter, feeding, handling, and breeding of hamsters. Adapted from Minnesota. [2] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

514

Health project guide.

Homan, Judith. 1977. Describes things member may wish to learn in the 4-H Health Project and suggests activities for health education. [6] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Low Income, Physically Handicapped, Member, Elementary, Junior, and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth.

515

Honeybee project guide.

Iowa Cooperative Extension Service. 1978. States projects objectives, lists things members should learn in the project and gives specific activities the members might carry out to do the learning. Learnings and activities divided into beginning and

advanced. [2] p. : ill.
Document available from:
Publications Distribution,
Iowa State University, Ames,
Iowa 50011. Publication
intended for: Member,
Elementary, Junior and Senior
High Levels. Learning
experience: Knowledge, skills,
practices.

516

Horse and pony project guide.
Benson, Lynn. Wickersham, Tom.
1976. States project
objectives and gives
suggestions on skills in areas
such as basic handling,
riding, equipment, feeding and
health care, that should be
developed at five levels of
advancement. [4] p. Document
available from: Publications
Distribution, Iowa State
University, Ames, Iowa 50011.
Publication intended for:
Member, Elementary, Junior and
Senior High Levels. Learning
experience: Knowledge, skills,
practices; Leadership skills.

517

Hot Line.
Iowa Cooperative Extension
Service. 1975. A guide for the
Iowa self determined
communication project designed
to help the member gain a
better understanding of the
communication process and
improve skills as a
communication source and
consumer. 7 p. Document
available from: Publications
Distribution, Iowa State
University, Ames, Iowa 50011.
Publication intended for:
Member, Senior High Level.
Learning experience:
Knowledge, skills, practices;
Family; Careers, earning and
saving.

518

Hot line, leader's guide.
Iowa Cooperative Extension
Service. 1975. Clarifies the
leader's role with a member
who has enrolled in the self
determined Iowa communication
project. Covers the objectives
and expectations for a member
in the project. Suggests
activities that the member
might carry out. 5 p. Document
available from: Publications
Distribution, Iowa State
University, Ames, Iowa 50011.
Publication intended for:
Leader. Learning experience:
Knowledge, skills, practices;
Careers, earning and saving.

519

**Iowa 4-H farm management
project guide.**
Edwards, William, . 1980.
States project objectives.

Lists things to learn on
topics such as capital, feed,
labor, cash flow, obtaining
loans, records, tax and gives
things the members may carry
out to do the learning. 4 p.
Document available from:
Publications Distribution,
Iowa State University, Ames,
Iowa 50011. Publication
intended for: Member, Senior
High Level. Learning
experience: Knowledge, skills,
practices; Careers, earning
and saving.

520

**Iowa 4-H leadership project
guide.**
Homan, Judith. 1979. Gives
possible leadership roles that
youth assume in their club or
county; Lists things they may
wish to learn and specific
leadership activities to do.
Publications Distribution,
Iowa State University, Ames,
Iowa 50011. 8 p. : ill. Not
part of a sequence.
Publication suitable for:
General. Member material.
Publication intended for
senior high level.

521

**Iowa 4-H leadership project
guide.**
Homan, Judith. 1979. This
guide gives ideas for possible
leadership roles that one may
assume. The suggestions are
grouped into categories by
increasing difficulty.
Examples of projects other
teens have conducted are
provided. 8 p. Document
available from: Publications
Distribution - Printing &
Publication Bldg., Iowa State
Univ., Ames, IO 50011.
Publication intended for:
Member; Junior and Senior High
Level. Learning Experience:
Knowledge, skills, practices;
Leadership skills.

522

**Iowa, 4-H Leadership Project
Handbook.**
Homan, Judy. 1979. Outlines a
process approach to planning,
conducting and evaluating teen
leadership activities.
Includes tools for exploring
each step. 16 p. : ill.
Document available from:
Publications Distribution,
Iowa State University, Ames,
Iowa 50011. Publication
intended for: Member and
Senior High Level. Leader's
guide available. Learning
experience: Knowledge, skills,
practices. Decision making.
Personal growth. Leadership
skills.

523

Iowa 4-H leadership project handbook.
 Homann, Judith. 1979. This handbook uses a step-by-step approach to guide a member when choosing & developing a leadership project. It helps a member explore his/her own strengths & weaknesses, determine needs, set goals, develop & carryout a leadership activity & evaluate it. 16 p. : ill. Document available from: Publications Distribution - Printing & Publication Bldg, Iowa State Univ., Ames, IO 50011. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Leadership skills.

**524
 Keys to communities.**
 Wallize, John A. Johnson, Arthur H. Wishart, Don. 1973. Gives youth an overview of what's involved in bringing about community change. Stresses involvement of youth in the community development process. Publications Distribution, Iowa State University, Ames, Iowa 50011. 8 p. : ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for senior high level.

**525
 Mice and rats as a 4-H project.**
 Iowa Cooperative Extension Service. 1973. Gives information on housing, feeding, handling, grooming, health care, and breeding of mice and rats. Adapted from Minnesota. [2] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

**526
 Model airplanes, leader's guide.**
 Iowa Cooperative Extension Service. 1979. Helps leader organize club or special interest group. Gives program objectives - awareness of basic space science concepts and their impact on society, skills development by youth. Lists six activities/events to aid youth in handling planes. [2] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices.

**527
 Model rocketry : leader's guide.**
 Iowa Cooperative Extension Service. 1979. Helps leader organize club or special interest group. Gives program objectives - awareness of basic space science concepts, and their impact on society, skills development by youth. Lists six activities/events to aid youth in handling rocket. [3] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices.

**528
 On your mark! Get set! Go!**
 Iowa Cooperative Extension Service. 1980. A simple explanation and worksheet of the steps in planning a talk or demonstration for a club meeting. [2] p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary Level. Learning experience: Knowledge, skills, practices; Social.

**529
 Open lines.**
 Drake, Sharon. 1975. A guide for the Iowa basic communication project designed to help members learn about the communication process, problems in communication, and skills to become a better communicator. 10 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

**530
 Open lines, leader's guide.**
 Iowa Cooperative Extension Service. 1975. Clarifies the leader's role with a member who has enrolled in the basic Iowa communication project. Covers the objectives and expectations for a member in the project. Suggests activities that the member might carry out. 4 p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning experience: Knowledge, skills, practices.

**531
 Ornamental horticulture**

project guide.

Cott, A. E. 1979. States project objectives, lists things members should learn regarding annual flowers and lawn care plus specific activities members might carry out to do the learning. Contents are age graded. [3] p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: General, Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

532

Pets and kids :. reference manual.

Pals, Diana. Hoskins, Johnny. 1975. Reference piece on choosing a pet, needs of pets, health, communicating with pets, grooming, laws affecting pets, feeding, traveling, breeding, training and death of pets. Gives information on gerbils, cats, rabbits, mice, hamsters, birds, fish, dogs, and guinea pigs. 20 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

533

Pets and kids, Leader's guide.

Iowa Cooperative Extension Service. 1977. Clarifies the role of the leader in working with a member enrolled in a pet project. Gives a bibliography of pet publications. [2] p. Document available from: Publications Distribution, Iowa State University, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning experience: Knowledge, skills, practices.

534

Plant pathology project guide.

Iowa Cooperative Extension Service. 1975. States project objectives. The piece is designed to be a self alternative to other plant science projects, focusing on plant diseases and pests, their effect on plant growth and resulting economic effects on man. Lists things to learn and activities to do. [2] p. ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Senior High Level. Learning experience: Knowledge, skills, practices.

535

Plant science project guide.

Benson, Garren. Davidson, Stanley. 1976. This project guide is to help members explore the world of plants. It suggests things to learn and to do for any plant science project member. Suggestions include seed germination, plant reproduction, soil composition & nutrition, plant growth factors, plant identification, seed harvesting, seed storage, fertilization pest-management, and end uses. 4 p. Document available from: Publications Distribution - Printing & Publications Bldg., Iowa State Univ., Ames, IO 50011. Publication intended for: Member; Elementary Level; Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

536

Poultry project guide.

Owings, William. 1974. States project objectives. Lists things members should learn on chick growing, laying flocks, turkey grooming, and industries that are poultry related plus activities members might carry out to do the learning. [2] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Level. Learning experience: Knowledge, skills, practices; Careers, earning and saving.

537

Preparty and get-acquainted activities.

Iowa State University. Cooperative Extension Service. 1980. Seventeen get-acquainted games for the first 5-10 minutes after arrival. Includes age of audience, equipment, time allotment for activity, formation of group & rules for each activity. [4] p. Document available from: Publications Distribution - Printing & Publications Bldg., Iowa State Univ., Ames, IO 50011. Publication intended for: Member; Elementary Level; Leader; Staff; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Leadership skills; Social.

538

Project guide for 4-H members in geology, Unit I.

Iowa Cooperative Extension Service. 1979. An introduction to the study of rocks and minerals. Lists project requirements, learning

suggestions, and process involved in rock identification, collection and exhibiting. 3 p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary and Junior High Levels. Learning experience: Knowledge, skills, practices.

539

Project guide for 4-H members in geology, unit II.

Iowa Cooperative Extension Service. 1979. Members learn ways to identify rocks and minerals by color and weight and know what is meant by fracture and cleavage. Covers fossils, how they formed and how to identify them. [2] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary and Junior High Levels. Learning experience: Knowledge, skills, practices.

540

Project guide for 4-H members in geology, unit III.

Iowa Cooperative Extension Service. 1972. Briefly covers rock formations, tests for identifying rocks and minerals and expanding rock collections. [2] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

541

Rabbit project guide.

Hoskings, Johnny. 1979. States project objectives. Lists things to learn and activities on topics such as housing, feeding, diseases, production, record keeping, handling, identifying, and meat production. 4 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

542

Recreation project guide.

Thompson, Glen. 1976. Suggests individual and group activities and how to prepare for a leadership role. 3 p. Document available from: Publications Distribution,

Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Leadership skills.

543

Safety project guide.

Iowa Cooperative Extension Service. 1974. States project objectives. Briefly describes things members may want to learn once they have selected a specific area of safety to study. Gives some suggested activities. [2] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

544

Semiactive and quiet games.

Iowa State University. Cooperative Extension Service. 1980. Thirty-five semiactive & quiet games for indoor & outdoor play with youth & adults. Age of audience, time activity takes, formation of groups, and rules are given for each activity. [6] p. Document available from: Publication Distribution - Printing & Publications Bldg., Iowa State Univ., Ames, IO 50011. Publication intended for: Member; Elementary Level; Leader; Staff; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Leadership skills; Social.

545

Sheep project guide.

Iowa Cooperative Extension Service. 1974. States project objectives. Gives brief ideas of things to learn and activities on topics such as selection, feeding, care, shelter, showing, breeding, and marketing of sheep. 4 p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

546

Show off your skill :. Do your own 4-H working exhibit.

Bogue, Bill. ;. Ong, Henry. 1978. A guide for planning a working exhibit which is an informal demonstration. Includes ideas for topics,

setting up the exhibit, presenting it, and evaluation. 4 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

547

Snowmobile project guide.

Davidson, Stan. 1973. States project objectives. Lists things members should learn and gives specific activities the member might carry out to do the learning. [2] p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

548

Social recreation: active games for all ages.

Iowa State University. Cooperative Extension Service. 1980. Twenty-eight activities for indoor & outdoor play with youth & adults. Age of audience, time activity takes, formation of group during activity & rules are given for each activity. [6] p. : ill. Document available from: Publication Distribution - Printing & Publications Bldg., Iowa State Univ., Ames, IO 50011. Publication intended for: Member; Elementary Level; Leader; Staff; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Leadership skills; Social.

549

Social recreation leadership.

Thompson, Glen. Smith, Allan. 1980. Defines recreation and states his function. Gives qualifications of recreation leaders & how to develop leadership ability. How to plan a program/party & evaluate it. Suggests categories of activities. 8 p. : ill. Document available from: Publications Distribution - Printing & Publications Bldg., Iowa State Univ., Ames, IO 50011. Publication intended for: Member; Leader; Staff; Junior and Senior High Level. Learning Experiences: Knowledge, skills, practices; Leadership skills; Social.

550

"Sound off" with a 4-H presentation.

Fals, Diana. 1971. This publication briefly covers choosing a topic and putting together a 4-H presentation, what members can gain from a talk, and the introduction, body, and summary of a talk. Publications Distribution, Iowa State University, Ames, Iowa 50011. 4 p. : ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for junior high and senior high levels.

551

Swine project guide.

Iowa Cooperative Extension Service. 1980. States project objectives. Lists things members should learn and gives specific activities the member might carry out to do the learning. Suggestions are given for juniors, intermediates, and seniors. 4 p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

552

Tractor project guide.

Davidson, Stan. 1978. States project objectives. Lists things members should learn and gives specific activities the member might carry out to do the learning. The guide is divided into units to match the nationally produced tractor publications. 3 p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High levels. Learning experience: Knowledge, skills, practices.

553

Unit 1 food and nutrition project guide.

Iowa Cooperative Extension Service. 1978. Introduces nutrition concepts, meals and snacks, food preparation, and preservation and storage. Lists things members should learn in each of these categories and gives specific activities the members might carry out to do the learning. Uses the nationally produced "All American Foods" as a reference manual. [4] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication

intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices. Decision making.

554

Unit 2, caring for children, 4-8 child development.
Bakawa-Evenson, Lois. 1978. Helps member decide if they are ready to babysit children. Covers growth and development, safety, games, finger plays and tips for special times with children. 27 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for member, junior high level. Leader's guide available. Learning experience: Knowledge, skills, practices ; Family ; Decision making ; Careers, earning and saving ; Personal growth.

555

Unit II food and nutrition project guide.
Olson, Phyllis. 1978. Emphasizes new experiences with foods, especially studying cultures and foods of other countries. Uses the nationally produced "Foods with an International Flavor" as a reference manual. Lists things members should learn and gives specific activities to do the learning. [4] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member and Junior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making.

556

Unit 3, Parenting Ahead, 4H Child Development.
Bakawa-Evenson, Lois. 1978. Focuses on helping member develop self understanding, discover values, and analyze needs and requirements for parenting children. Identifies various types of families. 18 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for member, senior high level. Leader's guide available. Learning experience: Family ; Decision making ; Careers, earning and saving ; Personal growth.

557

Unit III food and nutrition project guide.
Iowa Cooperative Extension Service. 1978. Investigates

interests of teens in parties, weight control, and social behavior. Uses the nationally produced "Teens Entertain" as a reference manual. Lists things members should learn and gives specific activities to do the learning. [3] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices. Decision making.

558

Vegetable gardening and small fruit growing project guide.
Vance, Ben F. 1976. This guide suggests goals and activities for beginners, intermediate and advanced gardeners in such areas as preparing land, planting, maintenance, pest-control, harvesting and possibly marketing of fruits & vegetables. Suggestions for advanced gardeners also include commercial growing of fruits & vegetables. [4] p. : ill. Document available from: Publications Distribution - Printing & Publications Bldg., Iowa State Univ. Ames, IO 50011. Publication intended for: Member; Elementary; Junior and Senior High. Leader's guide available. Learning Experience: Knowledge, skills, practices.

559

Veterinary science project guide.
Davidson, Stan. 1974. States project objectives. Lists things members should learn and gives specific activities the member might carry out to do the learning. The guide is divided into units to match the nationally produced veterinary science publications. [2] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

560

Woodworking project guide.
Iowa Cooperative Extension Service. 1980. States project objectives. Lists things members should learn and gives specific activities the member might carry out to do the learning. The guide is divided into units to match the nationally produced woodworking publications. 4 p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication

intended for: Member,
Elementary, Junior and Senior
High Levels. Learning
experience: Knowledge, skills,
practices.

561

**Your 4-H climatology project
: unit II.**
Rohweder, Dwayne. Oschwald,
William. 1959. Covers how heat
from the sun causes weather,
why we have seasons of the
year, and how temperature is
measured. Includes discussion
questions and demonstrations.
32 p. : ill. Document
available from: Publications
Distribution, Iowa State
University, Ames, Iowa 50011.
Publication intended for:
Member; Junior and Senior High
Level. Learning Experience:
Knowledge, skills, practices.

562

**Your 4-H climatology project
: unit III.**
Rohweder, Dwayne. Oschwald,
William. 1964. Introduces
water and air as
weathermakers. Looks at air
pressure and humidity and how
they are related to weather.
Includes weather maps and
weather forecasts.
Demonstration ideas are given.
[14] p. : ill. Document
available from: Publications
Distribution, Iowa State
University, Ames, Iowa 50011.
Publication intended for:
Member; Junior and Senior High
Level. Learning Experience:
Knowledge, skills, practices.

563

**Your 4-H Climatology Project,
Unit 1.**
Rohweder, Dwayne. Oschwald,
William. 1964. A project
manual designed to help 4-H
members understand the
weather. Includes factual
information with supporting
demonstrations. 17 p. : ill.
Document available from:
Publications Distribution,
Iowa State University, Ames,
Iowa 50011. Publication
intended for: Member and
Junior High Level. Leader's
guide available. Learning
experience: Knowledge, skills,
practices. Decision making.
Personal growth.

564

**Your 4-H climatology project
unit 1.**
Rohweder, Dwayne. Oschwald,
William. 1964. This book is
the beginning level of 4 units
for the 4-H climatology
project. Discussion and
activities center around
various weathermakers (earth,
heat, water, air), how moving

air brings us weather, and
some of the signs of weather
changes (clouds). 17 p. :
ill. Document available from:
Publications Distribution -
Printing & Publications
Office, Iowa State Univ.,
Ames, IO 50011. Publication
intended for: Member;
Elementary Level. Leader's
guide available. Learning
experience: Knowledge, skills,
practices.

565

**Your 4-H climatology project,
unit IV.**
Rohweder, Dwayne. Oschwald,
William. 1979. Stresses how
weather affects people and the
relationship of weather to
agriculture, horticulture,
forestry, insects, and
wildlife. Demonstration ideas
are given. 19 p. : ill.
Document available from:
Publications Distribution,
Iowa State University, Ames,
Iowa 50011. Publication
intended for: Member; Junior
and Senior High Level.
Learning Experience:
Knowledge, skills, practices.

566

Your 4-H entomology project.
Stockdale, Harold. 1980.
Covers project requirements,
characteristics of insects,
collecting and mounting
insects and damaged plants,
and career opportunities. Many
ideas activities and exhibits.
Includes bibliography. 19 p.
: ill. Document available
from: Publications
Distribution, Iowa State
University, Ames, Iowa 50011.
Publication intended for:
Member, Elementary, Junior and
Senior High Levels. Leader's
guide available. Learning
experience: Knowledge, skills,
practices; Careers, earning
and saving.

567

**Your 4-H plant collection
project.**
Epstein, A. H. 1978. Gives
directions on building a plant
press and ideas on collecting,
labeling, drying, mounting,
displaying, and storing plant
specimens. 3 p. : ill.
Document available from:
Publications Distribution,
Iowa State University, Ames,
Iowa 50011. Publication
intended for: Member,
Elementary, Junior and Senior
High Levels. Learning
experience: Knowledge, skills,
practices.

568

Your 4-H sheep project.
Wickersham, Tom. Wishart, Don.

1974. Covers planning the project, animal selection and care, feeding, management, and showing. 12 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for Member, Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

569

4-H aerospace project guide.
Stein, Sue. 1979. Guide includes one-page suggested record for this project. Lists things members should learn in the project and gives specific activities the members might carry out to do the learning. Lists the objectives for the project. 4 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member; Elementary and Junior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

570

4-H arc welding project, unit B, advanced arc welding.
Bear, Forrest. Meyer, Vernon. 1967. Gives diagrams and step by step guidelines for making horizontal and vertical welds, overhead fillet welds, a shelf bracket and an adjustable stand. For second year arc welding members. 16 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

571

4-H arc welding project, unit C, advanced arc welding.
Bear, Forrest. Meyer, Vernon. 1975. Gives diagrams and step by step guidelines for more difficult but and fillet welds plus instructions for welding sheet metal, cast iron, and high carbon steel. Gives plans for steel post driver, pipe sawhorse, and angle iron sawhorse. 19 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

572

4-H automotive project guide.
Williams, David. Kramer, Maurice. 1976. Lists things members should learn in the project and gives specific activities the member might carry out to do the learning. The guide is divided into units to match the nationally produced automotive publications. 4 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member; Elementary, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

573

4-H Child development :. unit 1, learning and sharing.
Bakawa-Evenson, Lois. 1978. Activities for members to learn more about their own growth and development. Suggests structured play times with children as part of project. 16 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for member, elementary level. Leader's guide available. Learning experience: Knowledge, skills, practices ; Family ; Personal growth.

574

4-H child development leaders guide.
Bakawa-Evenson, Lois. 1978. This leader's guide provides ideas and activities for helping members enrolled in the child development project. Hints are provided for each of three units. 68 p. : ill. Document available from: Publications Distribution Printing and Publications Bldg., Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices; Family; Personal growth.

575

4-H Child Development Leaders Guide.
Bakawa-Evenson, Lois. 1978. This manual includes three child development member manuals bound together for leader's use. Also, reviews characteristics of youth and ideas for meetings and activities. Resource list is provided. Publication distribution, Iowa State University, Ames, Iowa 50011,. 78 p. : ill. Not part of a sequence. Publication suitable for: General. Leader material. Publication intended for adult

level.

576

4-H child development project guide I.

Kruse, Sue. Bakawa-Evenson, Lois. 1978. Lists things members should learn in the project and gives specific activities the member might carry out to do the learning. The content helps members discover some facts about themselves and younger children. 6 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member; Elementary Level. Leader's guide available. Learning experience: Knowledge, skills, practices; Family; Social; Personal growth.

577

4-H child development project guide II.

Kruse, Sue. Bakawa-Evenson, Lois. 1978. Lists things members should learn in the project and gives specific activities the member might carry out to do the learning. The content deals mainly with babysitting skills. 6 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member; Junior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices; Family; Social; Personal growth.

578

4-H child development project guide III.

Kruse, Sue. Bakawa-Evenson, Lois. 1978. Lists things members should learn in the project and gives specific activities the members might carry out to do the learning. The content deals with who the members are and how they feel about families and parenting. 5 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member; Senior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices; Family; Social; Personal Growth.

579

4-H climatology project leader's guide.

Iowa State University Cooperative Extension Service. 1973. A guide for project

leaders to use with four 4-H Climatology units. Includes project requirements, meeting presentations and optional activities for the four units. 35 p. Document available from: Publication Distribution, Iowa, State University, Ames, Iowa 50011. Publication intended for Leader. Learning Experience: Knowledge, skills, practices.

580

4-H clubs, 4-H leader handbook 2.

Isaacson, Judith. Horne, Dick. Ottmar, Mary. 1979. Designed to help leaders understand how a 4-H club functions. Covers conducting meetings, working with officers, planning yearly club programs, and club evaluation. 31 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for Leader. Learning experience: Knowledge, skills, practices. Decision making. Personal growth. Social. Citizenship and community. Leadership skills.

581

4-H Consumer and Management Project Guide.

Needles, Cynthia L. 1979. Alternative activities suitable for three age groups. Goals are to teach money management, financial records, wise shopping, and use of saving and checking accounts. Publications Distribution, Iowa State University, Ames, Iowa 50011. 12 p. : ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary, junior and senior high level.

582

4-H consumer and management project, leaders guide.

Needles, Cynthia. Kruse, Sue. 1979. Designed to help leaders help 4-H'ers to build project-related skills and confidence in making their own decisions, thinking about money, thinking about credit, buying, and being responsible consumers. 9 p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making.

583

4-H crop, weather and cropping activity reports.

Benson, Garren. 1973. A guide and standard procedure for members to record topsoil moisture, rainfall, field work and activity on crop development to the county extension office. 4 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

584

4-H dairy project leader's guide.
Davidson, Stanley. Voelker, Donald. 1978. States objectives to help leader help members build project-related skills and knowledge and gain confidence in own abilities. Includes outlines on efficient dairy farming, choosing a 4-H dairy project, raising dairy calves, care and management of milking cows, fitting, showing, and judging. 6 p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning experience: Knowledge, skills, practices.

585

4-H Forestry project, forest management, unit IV.
Wray, Paul H. 1977. Covers forest resources, forest ecology and forest management. Bibliography included. Fourth in a series of four forestry publications. [12] p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Careers, earning and saving.

586

4-H Forestry project, products made from wood, unit III.
Prestemon, Dean R. 1977. Covers project requirements, properties of wood, types of wood products, how they are used, and promotes awareness of the forest products industry. Gives some demonstration ideas. Third in a series of four forestry publications. 8 p. : ill. Part of a sequence. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Careers, earning

and saving.

587

4-H Forestry project, tree seedlings and seedling growth, unit II.
Wray, Paul H. 1977. Covers project requirements, seed formation, seed structure, types of seed collecting, seed germination and seed sowing. Second in a series of four forestry publications. 12 p. : ill. Part of a sequence. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

588

4-H Forestry Project, unit 1, forest leaf collection.
Maynard, Charles. Wray, Paul. 1977. Instructions for creating a forest leaf collection. Includes pressing, mounting, and species description guidelines. 5 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making.

589

4-H home improvement, leader guide.
Warne, Lois. Kruse, Sue. Berkland, Melva. 1980. Designed to help leaders help members build project-related knowledge and skills and develop personally. Sections coordinate by color and topic to five home improvement project books - design, furniture, accessories, fabric furnishings, survival skills. Each section includes quick facts, things to remember, things to do, and resources. Numerous activities. [126] in various pagings : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making.

590

4-H home improvement project :. Topic I: Discovering design.
Warne, Lois. 1980. Focuses on design as an overall plan for a room or house. Covers elements of color, line,

texture, shape and principles of balance, rhythms, emphasis, scale, and unity. First home away from home is covered. List of careers. 31 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Decision making.

591

4-H home improvement project guide 1.
Iowa State University. Cooperative Extension Service. 1980. Developed for the beginner. Project ideas emphasizing the member's room are provided in five areas: discovering design, furniture facts, accessory accents, fabric furnishings & survival skills. Project books are available in each area. 8 p. Document available from: Publications Distribution - Printing & Publications Bldg., Iowa State Univ., Ames, IO 50011. Publication intended for: Member; Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

592

4-H home improvement project guide 3.
Iowa State University. Cooperative Extension Service. 1979. Developed for the advanced member with emphasis on one's future home. Project ideas are provided in 3 areas. Discovering Design, Furniture facts, and Accessory Accents. Project books are available in each of the 3 areas. 7 p. Document available from: Publications Distribution - Printing & Publications Bldg., Iowa State Univ., Ames, IO 50011. Publication intended for: Member; Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

593

4-H home improvement project, topic II: furniture facts.
Warne, Lois. 1980. Covers room arrangement, making over old furniture, finishing, refinishing, upholstering, styles. Numerous activities. Three pages of 1/4" graph for room plan. Furniture floor and elevation drawings. 43 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning

experience: Knowledge, skills, practices. Decision making.

594

4-H home improvement project, topic III: accessory accents.
Warne, Lois. 1980. Includes activities for wall and table-top grouping. How to make dried arrangements and select and coordinate tableware. Numerous activities. In general covers accessories as accents in a home. 37 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making.

595

4-H home improvement project, topic IV: fabric furnishings.
Warne, Lois. Kruse, Sue. Berkland, Melva. 1980. Directions for furnishings you can make - dresser scarf, log or book carrier, round table cloth, fringed cloth, director's chair cover, wall hanging, pillow, comforter, bedspread, roller shade, sleeping bag. Fabric characteristics chart. 50 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making.

596

4-H horse project leader's guide.
Benson, B. Lynn. Wickersham, Tom. 1976. Presents ideas for horse project meetings and demonstrations, with suggestions for beginners, intermediates, and advanced. Has activities for trailrides, tours, games, and an outline for a series of meetings. Publications Distribution, Iowa State University, Ames, Iowa 50011, . 13 p. Publication suitable for: General. Leader material. Publication intended for adult level.

597

4-H leader roles and responsibilities, 4-H leader handbook 3.
Isaacson, Judith. Smith, Charlotte. Knapp, Fidella. 1979. Outlines roles various leaders perform in local and county 4-H programs. Describes helping relationships with members, parents, teen leaders

and other leaders. [22] p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices. Family. Leadership skills. Decision making. Personal growth.

598

4-H market beef-for beginning members.
Wickersham, Tom. Wishart, Don. 1978. Simple, general description of what is involved in 4-H market beef project for beginning project members. 4 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

599

4-H member project guide, unit IV, advanced geology.
Iowa Cooperative Extension Service. 1972. A self determined project on geology. Activities may be selected related to agriculture, archeology, geography, mining, metallurgy or related areas. [4] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

600

4-H music project guide.
Exner, Max V. Bogue, Bill. 1980. Lists activities that a member might carry out to learn about music. Activities are divided into three levels of difficulty. [2] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

601

4-H philosophy and guidelines, 4-H leader's handbook 1.
Isaacson, Judith. Hougren, Roy. King, Dean. 1979. Describes the purpose of 4-H and outlines various organizational structures and special content focuses. Also outlines general 4-H guidelines. [6] p. : ill.

Document available from: Publication Distributions, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning experience: Leadership skills. Decision making.

602

4-H photography project guide.
Wishart, Donald. Kramer, Maurice. 1978. Things members may learn and specific activities they may carry out in the photography project. Divided into five levels to match Kodak 4-H photography pieces. Publications Distribution, Iowa State University, Ames, Iowa 50011. 4 p. : ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary, junior and senior high levels.

603

4-H photography project guide.
Iowa State University. Cooperative Extension Services. 1978. This game identifies learning concepts (goals) and activity suggestions for members in the photography project. Ideas are given for five different skill levels. Project books are available for each level. 4 p. Document available from: Publications Distribution - Printing and Publications Bldg., Iowa State University, Ames, IO 50011. Publication intended for: Member; Elementary Level; Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

604

4-H projects in plant pathology.
Epstein, A. H. Nyvall, Robert. 1976. Gives information on collecting, identifying, and preserving diseased plant specimens to learn how to prevent and control disease. Includes an experiemtn on fungicide as a seed protectant. 6 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Senior High Level. Learning experience: Knowledge, skills, practices.

605

4-H small engines project guide.
Stein, Sue. 1979. States project objectives. List things members should learn

and gives specific activities the member might carry out to do the learning. [2] p. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

506

4-H swine projects.
Stevens, Emmett.
Wickersham, Tom. 1979. Includes planning, financing, animal selection and care, management, identification, and showing. 8 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for Member, Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

507

4-H vegetable gardening and small fruit growing project guide.
Vance, Ben F. Mavee, Linda. 1979. Selected learning objectives correlated with home garden project activities. Includes suggestions for beginners, intermediates, and advanced members. 4 p. : ill. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving.

508

4-H home improvement project guide 2.
Iowa State University. Cooperative Extension Service. 1980. Developed for the intermediate member, or one who's had some experience with the home improvement project. Project ideas emphasizing the home environment are provided in 5 subject areas, discovering design, furniture facts, accessory accents, fabric furnishings & survival skills (storage, hometasks & energy). Project books are available in each area. 11 p. Document available from: Publications Distribution - Printing & Publications Bldg., Iowa State Univ., Ames, IO 50011. Publication intended for: Member; Junior High Level. Leader's guide available. Learning Experience: Knowledge, skills,

practices.

KANSAS

509

Adventures in clothing :. Get ready to sew : select a project : working with fabric : a look in the mirror.
Stryker, Marilyn B. 1979. This publication is a beginning level construction project book. It covers the sewing machine and equipment; fabric; grooming; and seven simple straight-stitch projects. 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506. 32 p. : ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary level.

510

Adventures with 4-H ceremonies.
Busset, Glen M. 1974. This publication gives tips on writing and presenting ceremonies, such as installation of officers, admitting new members, graduation, club seal, and awarding seals to leaders. 23 p. : ill. Document available from: 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

511

Aquarium pets.
Hurlburt, Anna. Busset, Glenn M. 1976. This publication describes the use of an aquarium for fish, amphibians and reptiles. It includes tips on care of various species (tadpoles, toads, frogs, fish, salamanders, snakes, turtles, and lizards). 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506. 9 p. : ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for junior high level.

512

Black Footed Ferret.
Henderson, F. Robert. 1979. This publication is designed to help 4-Hers understand the plight of the black-footed ferret. 11 p. : ill. Document available from: 4-H Publication Editor, Cooperative Extension Service, Kansas State University,

Manhattan, Kansas 66506.
Publication intended for:
Member and Junior High Level.
Learning experience:
Knowledge, skills, practices.

613

Clothes strategy.

Howe, Jereldine R. 1978. This publication outlines strategy for well-dressed older boys, stressing how to plan, buy, and care for clothes. 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506. 32 p. :. ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for senior high level.

614

Clothing carousel.

Howe, Jereldine R. Stryker, Marilyn B. 1979. This publication covers wardrobe planning and clothing buymanship; designed for teenage girls. 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506. 13 p. :. ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for junior and senior high levels.

615

Clothing speaks.

Johnson, Naomi M. Zimmerman, Zelda L. 1977. This publication helps boys and girls choose clothes to suit their figures. It includes underwear selection, taking body measurements, and clothing construction suggestions. 32 p. :. ill. Document available from: 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506. Publication intended for Member, Junior High Level. Learning Experience: Knowledge, skills, practices.

616

Community action cookbook.

Neely, Margery A. 1974. This publication describes projects that 4-H clubs can adapt for use in their communities. It is divided into easy projects (e.g., ecology project, community maintenance), moderately hard projects (e.g., fire hazard inspection), and difficult projects (e.g., directory of local services, city government volunteer aides). 32 p. :. ill. Document

available from: 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Decision making. Citizenship and community.

617

Creative ceramics - hand built.

Slinkman, Zoe E. Area, Marjorie. Replogle, Renata. 1975. This publication lists suggested learning experiences in ceramics for beginners, intermediate and advanced students. 13 p. :. ill. Document available from: 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506. Publication intended for: Member, Elementary, Junior and Senior Levels. Learning experience: Knowledge, skills, practices.

618

Creative crafts from nature.

Slinkman, Zoe F. 1977. This publication presents step by step instructions for making imaginative art pieces from items found in nature. 11. Document available from: 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506. Publication intended for: Member and Junior Level. Learning experience: Knowledge, skills, practices.

619

Cutting and polishing gemstones and minerals :. exploring the world through geology.

Jones, Harold E. 1978. This publication discusses the types of gemstones and minerals commonly collected, their tumbling, shaping, and mounting. This also includes semi-precious minerals. 4-H Publications Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas, 66506. 19 p. :. ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for senior high level.

620

Emergency preparedness project, 4-H member's manual.
Jepsen, Richard L. Roberts, Gary L. Bates, Charles T. 1973. This publication is designed to help 4-Hers

develop knowledge about disasters and to understand what planning is necessary. Covers first aid self help, food and water supplies, law support in a disaster, emergency warning systems, shelters, and radiation effect. 23 p. :. ill. Document available from: 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506. Publication intended for: Member and Junior High Level. Learning experience: Knowledge, skills, practices. Decision making.

621

Enjoy your cat.
Hurlburt, Anna. Busset, Glenn M. 1975. This publication covers care, feeding and house breaking of kittens and cats; designed for a 1 year project. 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, KS. 66506. 11 p. :. ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for junior high level.

622

Exploring clothing, part I.
Howe, Jereldine R. 1975. This publication describes materials for making clothes and basic steps for weaving. 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506. 7 p. :. ill. Part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary level.

623

Exploring clothing, part II.
Howe, Jereldine R. Johnson, Naomi M. Zimmerman, Zelda L. 1975. This publication describes why clothes are worn and what clothes to select. It introduces the child to modeling. 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506. 15 p. :. ill. Part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary level.

624

Exploring clothing, part III.
Howe, Jereldine R. Johnson, Naomi M. Zimmerman, Zelda. 1975. This publication starts the student in hand sewing, making a pillow and simple

stuffed toys. 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506. 19 p. :. ill. Part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary level.

625

Exploring the world through geology.
Jones, Harold E. 1971. This publication introduces the student to geological formations and suggests field trips and display making. It also covers the earth's formation. 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506. 31 p. :. ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for senior high level.

626

Fun with children.
Neely, Margery A. 1975. This publication has been planned to teach activities to do with preschoolers, such as stories, finger games, hand puppets, art and music activities, and nature activities. 24 p. :. ill. Document available from: 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506. Publication intended for: Member and Senior High Level. Learning experience: Family.

627

Fun with crochet.
Slinkman, Zoe E. 1979. This publication helps 4-H'ers learn crocheting skills and care of tools. It explains various stitchers but does not include crocheting project ideas. 16 p. :. ill. Document available from: 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506. Publication intended for Member, Junior High Level. Learning Experience: Knowledge, skills, practices.

628

Hand pets.
Hurlburt, Anna. Busset, Glenn M. 1975. This publication describes the care, costs and equipment needed to raise and enjoy hand pets (hamsters, gerbils, rats, mice, rabbits and guinea pigs). 4-H Publication Editor, Cooperative Extension Service, Kansas State University,

Manhattan, Kansas 66506. 11 p.
:.. ill. Not part of a
sequence. Publication suitable
for: General. Member material.
Publication intended for
junior high level.

Manhattan, Kansas 66506.
Publication intended for
Member, Junior High Level.
Learning Experience:
Knowledge, skills, practices.

629

Kansas fur harvest, member manual.
Henderson, F. Robert. 1974.
This publication teaches the
art of catching furbearing
animals and gives a greater
understanding and appreciation
for nature. 26 p. :.. ill.
Document available from: 4-H
Publication Editor,
Cooperative Extension Service,
Kansas State University,
Manhattan, Kansas 66506.
Publication intended for
Member, Junior High Level.
Leader's guide available.
Learning Experience:
Knowledge, skills, practices.

633

Reptiles and amphibians :.. leader's guide.
Ashton, Ray E. Collins, Joseph
T. Ferguson, Gary W. 1975.
This publication covers
suggestions for project
materials along with records
and keys to species
identification in Kansas.
Covered are frogs,
salamanders, turtles, lizards,
snakes and toads. 4-H
Publication Editor,
Cooperative Extension Service,
Kansas State University,
Manhattan, Kansas 66506. 19 p.
:.. ill. Not part of a
sequence. Publication suitable
for: General. Leader material.
Publication intended for
junior high level.

630

Kansas 4-H club officers.
Kansas Cooperative Extension
Service, State 4-H Staff.
1976. This publication
stresses the importance of
club officers and their duties
and provides a short checklist
for improving meetings. 11 p.
:.. ill. Document available
from: 4-H Publication Editor,
Cooperative Extension Service,
Kansas State University,
Manhattan, Kansas 66506.
Publication intended for
Member, Senior High Level.
Learning Experience:
Leadership skills; Personal
growth.

634

Reptiles and amphibians :.. member's manual.
Ashton, Ray E. Collins, Joseph
T. Ferguson, Gary W. 1974.
This publication discusses the
identification and
characteristics of reptiles as
well as their collection and
keeping in captivity. Briefly
covered are lizards, turtles,
salamanders, frogs, toads and
snakes. 4-H Publication
Editor, Cooperative Extension
Service, Kansas State
University, Manhattan, Kansas
66506. 11 p. :.. ill. Not part
of a sequence. Publication
suitable for: General. Member
material. Publication intended
for junior high level.

631

Parliamentary practice for 4-H.
Regnier, Roger E. Hanna, John
B. 1978. 4-H Publication
Editor, Cooperative Extension
Service, Kansas State
University, Manhattan, Kansas
66506. Describes parliamentary
procedures to accomplish vari-
ous actions. These are
designed to be practice
problems which make up a
two-year learning experience.
Publication intended for
junior high level.

635

So you're planning a booth.
Bates, Charles T. 1971. This
publication gives ideas on
planning and constructing
booths for fairs. 15 p. :..
ill. Document available from:
4-H Publication Editor,
Cooperative Extension Service,
Kansas State University,
Manhattan, Kansas 66506.
Publication intended for:
Member, Junior and Senior High
Levels. Learning experience:
Knowledge, skills, practices.
Social. Personal growth.
Citizenship and community.

632

Profitable pig projects for Kansas 4-H members.
Moyer, Wendall A. 1976. This
publication explains the
different swine projects and
the benefits that can be
gained, and includes
information on ear notching,
breeding, feeding, and showing
pigs. 11 p. :.. ill. Document
available from: 4-H
Publication Editor,
Cooperative Extension Service,
Kansas State University,

636

Starters and stretchers.
Kansas Cooperative Extension
Service, 4-H Staff. 1976. This
publication offers activities
to use in planning and
conducting meetings, with
suggestions for paper and
pencil games, action games,

and riddles. 11 p. : ill.
 Publication available from:
 4-H Publication Editor,
 Cooperative Extension Service,
 Kansas State University,
 Manhattan, Kansas 66506.
 Publication intended for:
 Member; Elementary Level.
 Learning Experience: Social.

available from: 4-H
 Publication Editor,
 Cooperative Extension Service,
 Kansas State University,
 Manhattan, Kansas 66506.
 Publication intended for
 Member, Junior High Level.
 Learning Experience:
 Knowledge, skills, practices;
 Decision making; Personal
 growth.

637
Understanding the world around us through ecology.
 Henderson, P. Robert. Bates, Charles. 1973. This publication emphasizes a concern for and acceptance of our responsibility toward the care of our environment. Stresses field trips to explore and learn and gives references. 39 p. : ill.
 Document available from: 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506.
 Publication intended for: Member and Senior High Level.
 Learning experience: Knowledge, skills, practices.

MASSACHUSETTS

641
My plan and progress sheet - 4-H textiles and clothing - level II.
 Randall, Margaret J. 1975. This is a record for 4-H members in the intermediate textiles and clothing program (Level II). [4] p. : ill.
 Document available from: Publications Distribution Center, Cottage A, Thatcher Way, University of Massachusetts, Amherst, Massachusetts 01003.
 Publication intended for: Member; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; Personal growth; Citizenship and community.

638
The winning demonstration.
 Busset, Glenn M. 1976. This publication assists a member in planning, preparing and presenting a demonstration and presents a list of title ideas. Helpful for leaders. [6] p. : ill. Document available from: 4-H Publications Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506.
 Publication intended for Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

MICHIGAN

642
Adventures in outdoor cooking.
 Kerr, Mary E. 1979. This bulletin includes recipes and instructions for cooking on a camp stove, on a charcoal grill, on a tin can, in foil, or in clay. Scheduled activities and checklists are included. There is a charge for this publication. 17 P. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

639
Write the 4-H story : a guide for reporters.
 Tennant, Marjorie Ann. 1975. This publication outlines the ways a 4-H Club reporter can more effectively carry out his duties in working with the news media. 4-H Publication Editor, Cooperative Extension Service, Kansas State University, Manhattan, Kansas 66506. 11 p. : ill. Not part of a sequence. Publication suitable for: General. Member material. Publication intended for junior high and senior high levels.

643
Adventures in outdoor cooking, leader's guide.
 Kerr, Mary E. 1979. This leader guide contains suggested outlines for eight outdoor cooking meetings as well as several suggestions for demonstrations. There is a charge for this publication. 5 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices.

640
The 4-H sheep projects.
 Spaeth, Clifford W. 1979. This publication discusses the three different sheep projects available to Kansas 4-H members and the project requirements. . Document

644

African cultural heritage.

Johnson, Mary. Yakubu, Derry Joe. Wass, Betty. 1977. This notebook is made up of four bulletins on the African people, their land and homes; foods, clothing and grooming, and their crafts. Separate modules explain the objectives to be covered, ideas to explore, and things to do in each of these areas. The purpose is to provide a broad cultural description. There is a charge for this publication. 14 v. in 1 :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices.

645

Air pollution.

Canja, Esther. Mack, Leslie A. Strommen, Norton. 1969. This is the fifth in a series of bulletins on the weather. It includes a discussion on the air and the atmosphere. Man-made pollution and the atom as it relates to air and the weather are also discussed. There is a charge for this publication. 22 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

646

The apprentice - leader's guide-woodworking project.

Michigan Cooperative Extension Service. 1964. This bulletin (the first of three leader guides) on how to teach members how to use the basic hand tools in a woodworking project. There is a cost for this publication. 30 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices.

647

The apprentice - woodworking project.

Pfister, R. G. 1964. This bulletin (the first of two member bulletins) contains instructions for using basic

hand tools in working with wood. There is a charge for this publication. 11 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Junior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

648

The art and science of lifetime bicycling - a resource guide.

Neff, Bonita Dostal. 1979. First of six planned publications. The next four will contain information for teaching cycle safety to several age levels, sixth is planned as a resource for family cycling. First guide covers many areas including traffic principles and laws, road hazards, intersections, responsibilities of the bicycle rider, riding at night, riding in the rain, taking trips. Charge for publication. 51 [i.e. 86] p. :. ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

649

The art of clowning.

Burkholder, Tony. Miller, Mary. Keefer, Sharon et al. 1979. The clowning project provides unique opportunities for an individual to develop physical and performing skills. It helps develop interpersonal communications, relationships with others, and strengthens self-confidence. This publication includes preparation and make-up application techniques. There is a charge for this publication. 39 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member and Senior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices.

650

The art of clowning, Leader's guide.

Burkholder, Tony. Miller, Mary. Keefer, Sharon et al. 1979. This bulletin contains lesson plans as well as

several exercises to use in helping clowns learn interpersonal and group communication styles. It also contains an evaluation form for use in evaluating costumes; makeup; selection and use of props; and the selection of skits, routines, and pantomimes. There is a charge for this publication. 11 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

651

Basic cycling tips (Bookmark). Neff, Bonita Dostal. 1978. This bookmark measures 3 1/4 by 8 1/2 inches and contains seven cycling tips on one side. Diagrams showing three different methods for making lefthand turns with a bicycle are printed on the reverse side. (100 copies shrinkwrapped to each package). There is a charge for this material. 2 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

652

Basic environment series - air - Leader's guide. George, Robert W. 1980. This bulletin lists the key concepts and includes a glossary on air. It discusses the eight activities outlined in the member guide and lists additional materials which are available. A project evaluation is included. 9 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

653

Basic environment series - air - Member's guide. George, Robert W. 1980. This bulletin teaches the composition of air and discusses the causes and effects of air pollution. It also discusses what can be done to obtain clean air and air in relation to soil, land,

and health. There is a charge for this publication. 17 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices.

654

Basic environment series - animals - leader's guide. George, Robert W. 1980. This bulletin lists the key concepts concerning animals and the environment. It discusses the eight activities outlined in the member guide and lists selected references which are available. A project evaluation is included. There is a charge for this publication. 9 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader; Senior High Level. Learning Experience: Knowledge, skills, practices.

655

Basic environment series - animals - member's guide. George, Robert W. 1980. This bulletin explores many aspects of animal life: how and where animals live, habitat and what animals need to survive and how they effect the environment. There is a charge for this publication. 21 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

656

Basic environment series - plants - leader's guide. George, Robert W. 1980. This bulletin lists the key concepts and includes a vocabulary list of words germane to plants. It discusses the nine activities outlined in the member guide and lists selected references. A project evaluation is included. There is a charge for this publication. 9 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for

Leader; Senior High Level.
Learning Experience:
Knowledge, skills, practices.

657

Basic environment series - plants - member's guide.
George, Robert W. 1980. This bulletin develops an understanding and appreciation of the important role of plants in our environment and includes experiments to discover some of the basic processes in plant life. There is a charge for this publication. 17 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

658

Basic environment series - soil - Leader's guide.
George, Robert W. 1980. This bulletin lists the key concepts and project activities for this project. It discusses the ten activities outlined in the member guide and lists selected references. A project evaluation is included. There is a charge for this publication. 8 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

659

Basic environment series - soil Member's guide.
George, Robert W. 1980. This bulletin helps to develop knowledge about soil and skills in working with soil. It includes experiments which lead to an appreciation of the importance of soil. It also includes instructions for making a worm farm. There is a charge for this publication. 21 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices.

660

Basic environment series - water - leader's guide.
George, Robert W. 1979. This bulletin lists the key concepts and includes a vocabulary list of words germane to water as a valuable resource. It discusses the ten activities outlined in the member guide and lists selected references. A project evaluation is included. There is a charge for this publication. 8 p. Document available from: 4-H - Youth Programs, Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader; Senior High Level.

661

Basic environment series - water - member's guide.
George, Robert W. 1979. This bulletin develops the concepts that water is essential to the well being of plant and animal life, that people's actions greatly influence water quality and that water serves many uses. Water Quality Tests are included. There is a charge for this publication. 16 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

662

Basic fishing information for youth - a handout for nonmembers.
Dudderar, Glenn. 1975. This leaflet includes highlights from the basic member bulletin, including some information on tackle and several types of bait. It is intended as a handout for nonmembers and encourages youth to join a 4-H group in this project area. There is a charge for this publication. 4 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Elementary, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

663

Beginning Electrical Science.
Surbrook, Truman C. Farmer, David M. Maddex, Robert L. 1974. Projects described in this bulletin (the first of

four) range from simple to complex and are intended to provide a basic knowledge of electricity. There is a charge for this publication. 36 p. :. ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for member, junior and senior high level. Learning experience: Knowledge, skills, practices.

664

Bicycle education.

Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations in bicycle education. It contains career exploration tips and lists various career options related to bicycling. There is a charge for this publication. [2] p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

665

Bicycle tool guide.

Neff, Bonita Dostal. 1981. This publication has sections on basic bicycle care, threads, valves, shift levers, bike parts, tool kits, brake cable and derailleur cable paths, luggage rack installation, etc. It describes and illustrates tools used for repairing bicycles and tells what they are used for, what they cost and where they can be purchased. This is a cost publication. 41 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member, Leader; Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

666

Bicycling:. concepts for tomorrow - final road test. Neff, Bonita Dostal. 1981. The leader/teacher should use this bulletin to record an individual rider's performance on everything learned in this series. Each cyclist is evaluated up to six times in areas such as group riding, intersection travel, lane changing, left turns, etc.

This is a cost publication. 2 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

667

Bicycling:. concepts for tomorrow - inspection checklist.

Neff, Bonita Dostal. 1981. This checklist is an aid to use during bicycle inspection. The major areas covered are wheels, brakes, gears, handlebars, and drive train. This is a cost publication. 1 p. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

668

Bicycling:. concepts for tomorrow - organizations, publications and bibliography.

Neff, Bonita Dostal. 1981. Organizations, publications, and a bibliography (which covers maintenance, touring, commuting, and general cycling) are listed. This is a cost publication. 2 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

669

Bicycling:. concepts for tomorrow - posture pedaling observation checklist.

Neff, Bonita Dostal. 1981. This checklist should be used by teacher/leader to observe for proper posture pedaling techniques. Eighteen cyclists can be evaluated on one checklist in areas including mounting/dismounting, pedal placement, spinning, weaving, and group riding. This is a cost publication. 1 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

670

Bicycling concepts for tomorrow - advanced maintenance and repair.
Neff, Bonita Dostal. 1981. This bulletin describes and illustrates procedures for advanced bike repair, including wheel, brake, and drive train maintenance, and bike shop selection. A maintenance chart lists various trouble symptoms, causes, solutions and tools needed. This is a cost publication. 8 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member; Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

671

Bicycling: concepts for tomorrow - advanced traffic principles.
Neff, Bonita Dostal. 1981. Advanced traffic principles covering right of way, arterial roadways, intersections, traffic signals, driving on the right, overtaking, and road hazards are presented in this publication. This is a cost publication. 4 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member; Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

672

Bicycling: concepts for tomorrow - beginning maintenance and repair.
Neff, Bonita Dostal. 1981. This bulletin describes and illustrates the materials and tools needed for beginning bicycle repair. Also included are sections on routine maintenance (cleaning and lubrication), wheel removal and tire maintenance. This is a cost publication. 6 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member; Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

673

Bicycling: concepts for tomorrow - beginning traffic principles.
Neff, Bonita Dostal. 1981. This publication includes topics of deciding where to ride, mixing with traffic, and basic traffic concepts such as right and left turns, lane positions, wrong-way riding, obstructions, and signaling. This is a cost publication. 6 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member; Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

674

Bicycling: concepts for tomorrow - decision-making skills.
Neff, Bonita Dostal. 1981. Decisions a bicyclist has to make are explored. These include what type of route to choose, when to be a vehicle and a pedestrian, and how to handle obstacles. Factors that affect decisions, such as planning time, skills, road conditions, and state of mind, are also described. This is a cost publication. 2 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member; Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

675

Bicycling: concepts for tomorrow - emergency maneuvers.
Neff, Bonita Dostal. 1981. This publication describes three maneuvers to use in emergency situations; panic stop, rock dodge, and instant turn. Diagrams for each maneuver are provided. This is a cost publication. 2 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member; Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

676

Bicycling: concepts for tomorrow - gearing.
Neff, Bonita Dostal. 1981. Shifting of three-speed

bicycles and derailleur-equipped bicycles is described in this bulletin. A gear chart and formula show what different sprocket combinations provide. This is a cost publication. 2 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member; Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

677
Bicycling: concepts for tomorrow - how to ride - doing it right.
 Neff, Bonita Dostal. 1981. Mounting and dismounting the bicycle, pedaling, and starting and stopping are explored in this publication. This is a cost publication. 2 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member; Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

678
Bicycling: concepts for tomorrow - inspection procedure.
 Neff, Bonita Dostal. 1981. If a bicycle fails the quick check, this publication provides instructions for conducting an inspection procedure including inspection of tires, brakes, gears, handlebars, and drive train. This is a cost publication. 2 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member; Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

679
Bicycling: concepts for tomorrow - instructor-leader training guide.
 Neff, Bonita Dostal. 1981. This publication is an aid for teaching the information presented to members on 4-H 1173A-L. A reduced version of each of the member's concept sheets is included, along with copies of the Final Road Test, Posture Pedaling Evaluation, Inspection Checklist, and Organizations, Publications,

and Bibliography. Each of the 12 sections has an objective, and an evaluation. 51 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader; Senior High Level. Learning experience: Knowledge, skills, practices.

680
Bicycling: concepts for tomorrow - quick check.
 Neff, Bonita Dostal. 1981. This publication tells how to conduct a quick check on a bicycle by examining brakes, tire pressure, wheels, pedals, handlebars, and saddle. This is a cost publication. 2 p. :. ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member. Learning experience: Knowledge, skills, practices. Leader's guide available.

681
Bicycling: concepts for tomorrow - the bicycle for you.
 Neff, Bonita Dostal. 1981. The limitations and uses of various types of bikes (e.g., banana, motocross, single- and multi-speed) are explored in this publication. Economic considerations, hints on proper fit and an adjustment checklist are included. This is a cost publication. 4 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member; Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

682
Bicycling: concepts for tomorrow - why you need bicycle training.
 Neff, Bonita Dostal. 1981. This publication sites the rising popularity of bicycling due to health, travel, recreation, economy, and energy conservation as a primary reason for the increase in the need for bicycle training. Also listed are other publications readers can consult for additional information. This is a cost publication. 2 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan

State University, East Lansing, Michigan 48824. Publication intended for: Member. Learning experience: Knowledge, skills, practices. Leader's guide available.

683

Birds - advanced projects - avian problems.

Michigan Cooperative Extension Service. 1968. This bulletin (the fourth in a series on birds) lists the basic requirements which should be included in a proposal for an advanced study of birds. The project would be similar to material studied in the third year of a bird project but should show more refinement of technique in the study. There is a charge for this publication. [3] p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

684

Birds - Project I - kinds of birds.

Michigan Cooperative Extension Service. 1968. This bulletin (the first in a series on birds) contains a list of activities and electives which would aid a member to learn about the various kinds of birds commonly seen in his/her own community. Eighteen work sheets comprise the balance of the bulletin. There is a charge for this publication. 20 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices.

685

Birds - Project III - Exploring avian problems.

Michigan Cooperative Extension Service. 1968. This bulletin the third in a series on birds contains a list of activities and electives which would aid a member to learn about the relationship of plants and animals, behavioral studies and territoriality of birds. Twenty-five work sheets comprise the balance of the bulletin. There is a charge for this publication. [28] p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan

State University, East Lansing, Michigan 48824. Publication intended for: Member and Junior and Senior High Levels. Leader's guide available. Learning experiences: Knowledge, skills, practices.

686

Building a weather station.

Canja, Esther. Mack, Leslie A. Strommen, Norton. 1967. This is the second of a series of five bulletins on weather. Besides instructions for building a weather station, it includes information on understanding pressure, the wind, and humidity. There is a charge for this publication. 24 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

687

Career awareness for youth: a 4-H donor program.

Hoopfer, Leah B. 1979. This publication describes how the 4-H Donor Program provides career awareness activities for youths through one-day visits to community businesses. Ways to implement the program and various follow-up activities are described, along with two actual donor day experiences. There is a charge for this publication. 8 p. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader, Staff and Senior High Level. Learning experience: Decision making. Careers, earning and saving. Personal growth. Citizenship and community.

688

Challenge, natural resources, and environmental conservation.

Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations in the environmental field. It contains career exploration tips and lists various career options for the out-of-doors field. There is a charge for this publication. 1 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for

Member; Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making; Careers,
earning and saving; Personal
growth.

for: Leader; Senior High and
Adult Level. Learning
Experience: Knowledge, skills,
practices.

589

Chart - avian groups.

VanDeusen, R. D. Johnson, W.
C. George, Robert W. 1966.
This reference chart may be
used to help members identify
birds in eighteen avian groups
along with the leader guide
entitled "Knowing Our Birds"
(Number 334.2). It includes
basic information as well as
silhouette drawings of birds
in each of these groups. There
is a charge for this
publication. 1 chart :. ill.
Document available from 4-H -
Youth Programs Publications,
175 South Anthony, Michigan
State University, East
Lansing, Michigan 48824.
Publication intended for
Member; Leader; Junior and
Senior High Level. Learning
Experience: Knowledge, skills,
practices.

690

**[Ciclismo :. conceptos del
manana]-posicion de pedaleo
lista de observaciones.**
Neff, Bonita Dostal. 1981.
This publication is an aid for
teaching 4-H members bicycle
safety and maintenance. This
publication is written in
Spanish and is a cost
publication. 1 p. Document
available from: 4-H - Youth
Programs Publications, 175
South Anthony, Michigan State
University, East Lansing, MI
48824. Publication intended
for: Member; Junior and Senior
High Levels. Learning
experience: Knowledge, skills,
practices. Leader's guide
available.

691

**Ciclismo:. conceptos del
manana -- manual de
entrenamiento para el
instructor-lider.**
Neff, Bonita Dostal. 1981.
This publication is an aid for
teaching the information
presented to members on 4-H
1173AS-LS. This Spanish
version differs from the
English version in that it
contains only leader material
-- it does not contain reduced
versions of the member
material. The material has
been translated into
easy-to-understand Spanish in
order to reach all dialects.
This is a cost publication. 64
p. :. ill. Document available
from: 4-H-Youth Programs
Publications, 175 South
Anthony, Michigan State
University, East Lansing, MI
48824. Publication intended

692

**Ciclismo:. conceptos del
manana -- porque necesita
entrenamiento el ciclista.**
Neff, Bonita Dostal. 1981.
This publication is an aid for
teaching 4-H members bicycle
safety and maintenance. This
publication is written in
Spanish and is a cost
publication. 2 p. :. ill.
Document available from:
4-H-Youth Programs
Publications, 175 South
Anthony, Michigan State
University, East Lansing, MI
48824. Publication intended
for: Member; Junior and Senior
High Level. Learning
Experience: Knowledge, skills,
practices.

693

**Ciclismo :. conceptos del
manana - cambios de
velocidades.**
Neff, Bonita Dostal. 1981.
This publication is an aid for
teaching 4-H members bicycle
safety and maintenance. This
publication is written in
Spanish and is a cost
publication. 2 p. :. ill.
Document available from: 4-H -
Youth Programs Publications,
175 South Anthony, Michigan
State University, East
Lansing, MI 48824. Publication
intended for: Member; Junior
and Senior High Level.
Leader's guide available.
Learning Experience:
Knowledge, skills, practices.

694

**Ciclismo :. conceptos del
manana - forma correcta de
montar.**
Neff, Bonita Dostal. 1981.
This publication is an aid for
teaching 4-H members bicycle
safety and maintenance. This
is a cost publication and is
written in Spanish. 2 p. :.
ill. Document available from:
4-H - Youth Programs
Publications, 175 South
Anthony, Michigan State
University, East Lansing, MI
48824. Publication intended
for: Member; Junior and Senior
High Level. Leader's guide
available. Learning
Experience: Knowledge, skills,
practices.

695

**Ciclismo :. conceptos del
manana - la bicicleta para
usted.**
Neff, Bonita Dostal. 1981.
This publication is an aid for
teaching 4-H members bicycle

safety and maintenance. This publication is written in Spanish and is a cost publication. 4 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member; Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

696

Ciclismo :. conceptos del mañana - maniobras de emergencia.
Neff, Bonita Dostal. 1981. This publication is an aid for teaching 4-H members bicycle safety and maintenance. This publication is written in Spanish and is a cost publication. 2 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member; Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

697

Ciclismo :. conceptos del mañana - mantenimiento y reparacion avanzados.
Neff, Bonita Dostal. 1981. This publication is an aid for teaching 4-H members bicycle safety and maintenance. This publication is written in Spanish and is a cost publication. 9 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member; Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

698

Ciclismo :. conceptos del mañana - principios avanzados de trafico.
Neff, Bonita Dostal. 1981. This publication is an aid for teaching 4-H members bicycle safety and maintenance. This publication is written in Spanish and is a cost publication. 5 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member; Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

699

Ciclismo :. conceptos del mañana - principios de mantenimiento y reparacion.
Neff, Bonita Dostal. 1981. This publication is an aid for teaching 4-H members bicycle safety and maintenance. This publication is written in Spanish and is a cost publication. 7 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member; Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

700

Ciclismo :. conceptos del mañana - principios de trafico preliminares.
Neff, Bonita Dostal. 1981. This publication is an aid for teaching 4-H members bicycle safety and maintenance. This publication is written in Spanish and is a cost publication. 7 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member; Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

701

Ciclismo :. conceptos del mañana - procedimiento para una inspeccion.
Neff, Bonita Dostal. 1981. This publication is an aid for teaching 4-H members bicycle safety and maintenance. This publication is written in Spanish and is a cost publication. 2 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member; Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

702

[Ciclismo :. conceptos del mañana - prueba final enelcamino.
Neff, Bonita Dostal. 1981. This publication is an aid for teaching 4-H members bicycle safety and maintenance. This publication is written in Spanish and is a cost publication. 2 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI

48824. Publication intended for: Member; Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Leader's guide available.

University, East Lansing, MI 48824. Publication intended for: General, Member; Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Leader's guide available.

703

Ciclismo :. conceptos del manana - revision rapida. Neff, Bonita Dostal. 1981. This publication is an aid for teaching 4-H members bicycle safety and maintenance. This publication is written in Spanish and is a cost publication. 2 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member; Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

704

Ciclismo :. conceptos del manana-habilidad de tomar decisiones. Neff, Bonita Dostal. 1981. 3 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member; Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Leader's guide available.

705

[Ciclismo :. conceptos del manana]-lista de inspeccion. Neff, Bonita Dostal. 1981. This publication is an aid for teaching 4-H members bicycle safety and maintenance. This publication is written in Spanish and is a cost publication. 1 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member; Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Leader's guide available.

706

[Ciclismo :. conceptos del manana]-Organizaciones, publicaciones, bibliografia. Neff, Bonita Dostal. 1981. This publication lists the bicycle organization and publications. This is a cost publication. 2 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State

707

Commercial beef cow production and herd health record project. Blank, Graydon. 1967. This bulletin is a project outline designed to acquaint the 4-H member with the value of production and herd health records, to interest member in performance testing of beef cattle, and to teach members the procedures to follow in securing production and herd health information. Examples of two record cards are included. There is a charge for this publication. 5, [3] p. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

708

Communications. Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations in communications. It contains career exploration tips and lists various career options in the communications field. There is a charge for this publication. 1 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

709

Communications made easy - a 4-H guide to presenting information. Parker, Rosemary. 1978. Topics covered are: publicity, news writing, newsletters, radio, television, videotapes, public speaking, demonstrations, graphics, exhibits, cartooning, slide-tapes, skits, puppets, awareness teams. There is a charge for this publication. 112 p. in various pagings :. ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State

University, East Lansing, Michigan 48824. Publication intended for: Member and Leader. Publication intended for Senior High Level. Learning experience: Knowledge, skills, practices.

710

Commuter day :. bicycle brochure VI.

Neff, Bonita Dostal. 1981. This brochure lists ideas and suggestions for beginning bicycle commuters: how to build endurance, what kind of bicycle to use, proper clothing, and safety. Bike storage at the destination is also discussed. This is a cost publication. 1 brochure :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member; Leader; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

711

Competition: Healthy and unhealthy.

Knoppers, Annelies. 1980. This pamphlet uses examples to show how the behavior of parents and coaches determines the values learned by athletes. Winning should not be defined as beating another team. There is a charge for this publication. 2 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

712

Conditioning for sports.

Heck, Kathleen. 1980. This pamphlet describes methods of attaining strength, flexibility, and endurance. There is a charge for this publication. 2 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

713

Conservation chart.

Michigan Cooperative Extension Service. 1955. By coloring the chart and cutting out and

mounting animals, birds, and fish on it, the young people learn about "Clear River Valley" and "Muddy River Valley". Chart is used in conjunction with bulletin 4-H 1040, Out Living Environment (four to six member can work on one chart). Charge for this material. Prepared by Sport Fishing Institute and Wildlife Management Institute, Wash., DC. 1 chart :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Junior High Level. Learning Experience: Knowledge, skills, practices.

714

Crafts.

Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youth explore occupations in the field of crafts. It contains career exploration tips and lists various craft-related career options. There is a charge for this publication. [2] p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

715

The craftsman - Leader's guide - woodworking project.

Michigan Cooperative Extension Service. 1964. This bulletin the third of three leader guides contains detailed instructions on how to teach members how to use some of the electrical tools. There is a charge for this publication. 22 p. :. ill. Document available from: 4-H - Youth Programs, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

716

Crop and soil sciences.

Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youth explore occupations in crop and soil sciences. It contains career exploration tips and lists various career options in this scientific field. There is a charge for this publication. 1 p. :. ill.

Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

717

Cross-country skiing.

Soderberg, Richard J. 1973. In addition to information on the skills required to ski cross-country, this booklet also contains information on the care and maintenance of equipment and on the type of clothing to wear. There is a charge for this publication. 18 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices.

718

Dairy.

Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations in the dairy field. It contains career exploration tips and lists various career options relating to dairy science. There is a charge for this publication. 1 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

719

The dairy goat.

Richardson, Curtis W. 1979. This project manual is to be used as a workbook, reference, and a record book for the dairy goat project. It includes information on selection, judging, feeding, care, and management. It is an exact reprint of an Oklahoma 4-H manual. There is a charge for this publication. 24 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader; Junior and Senior High Level.

Learning Experience: Knowledge, skills, practices.

720

Dogs.

Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations related to dogs. It contains career exploration tips and lists various career options in the field of canine study. There is a charge for this publication. 1 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

721

Double your pleasure :. bicycle brochure V.

Neff, Bonita Dostal. 1981. Long-distance riding concerns, such as endurances, gearing, toe clips, tool kits, water bottles, and bike bags, are discussed in this brochure. Also included is a list of cycling organizations. This is a cost publication. 1 brochure :. ill. Document available from: 4-H - Youth Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member; Elementary, Junior High, Senior High and Adult Level. Learning Experience: Knowledge, skills, practices.

722

Energy.

Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations related to energy. It contains career exploration tips and lists various career options in this conservation field. There is a charge for this publication. [2] p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

723

Energy from You ... Energy for You ... Energy by You. Edward, Ann Maxwell. Thurber, Joanne. 1979. The ideas for this publication, which deals with different aspects of saving energy, were developed from cartoons submitted to the 4-H Youth Program Energy Cartoon Contest by Michigan 4-H'ers. The book includes 100 of these energy cartoons drawn by the kids. There is a charge for this publication. 14 p. : ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for member, elementary level. Learning experience: Knowledge, skills, practices.

724

Enfasis en cualidades de mando - vista preliminar de 4-H. Michigan 4-H Leadership Developmental Committee. 1974. The first unit of the Focus on Leadership series has been translated into Spanish. This publication tells what 4-H is, who can be a 4-H'er, what 4-H means, how it works, and the role of the leader. The 4-H pledge (in Spanish) is printed on parchment-type paper on the last sheet of this bulletin. There is a charge for this publication. 13 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader, Senior High Level. Learning Experience: Leadership skills.

725

Engines. Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations related to engines. It contains career exploration tips and lists various career options in the area of mechanics. There is a charge for this publication. [2] p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

726

Entomology. Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps

youths explore occupations in entomology. It contains career exploration tips and lists various career options related to insects. There is a charge for this publication. [2] p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

727

Ernie II discussion guide. Griffin, Meg. 1981. This pamphlet is a discussion to accompany the slide-tape "Ernie II." It describes the 10-minute slide-tape on the stresses in the life of a young person and tells what kind of discussion to hold before and after the presentation. This is a cost publication. 1 pamphlet. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Leader; Senior High Level. Learning experience: Decision making; Personal growth.

728

EveryBODY's a winner! Michigan Cooperative Extension Service. 1980. This flyer is a discussion guide to be used with a 15-minute slide-show entitled "EveryBODY's A WINNER!" The show is suggested for use by parent groups, school PTA's or PTO's, volunteer coaches, and others interested in providing youth with quality sports experience. There is a charge for this publication. 3 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

729

Exhibition, judging, and evaluation. 1979-80 State 4-H Horse Developmental Committee, Michigan State University. 1980. This bulletin covers rules and regulations for Michigan 4-H Horse Shows, including appointments of horses and ponies and of riders. Scorecards for fitting and showing classes and

general rules for gymkhana classes are also included. It is intended to standardize judging and evaluation. There is a charge for this publication. 24 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Leader, Staff, Senior High Level. Learning Experience: Knowledge, skills, practices.

730

Experiences with young children.

Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations that deal with young children. It contains career exploration tips and lists various career options in the child care field. There is a charge for this publication. 1 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

731

Experimental horticulture project outline.

Michigan Cooperative Extension Service. 1967. This leaflet provides information on how to conduct horticultural experiments and includes a list of suggested topics for experiments. A list of references is provided. There is a charge for this publication. 2 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

732

Exploring foods and nutrition.

Brink, Muriel S. Mook, Marilyn C. (revisions). 1963. This bulletin is divided into five subject-matter areas: consumer education, experimental foods, food preparation and management, a special talent for food and nutrition. A number of project ideas are included in each section. There is a charge for this publication. 24 p. :. ill. Document available from: 4-H -

Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

733

Exploring outdoor eating.

Kerr, Mary E. 1980. This bulletin includes examples of seven different types of outdoor meals and methods of cooking from backpacking and eating wild to solar cooking and cooking on a rock. It also explores the food value of the key nutrients. There is a charge for this publication. 23 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

734

Exploring outdoor eating, leader's guide.

Kerr, Mary E. 1980. This leader guide tells how to use the member guide on outdoor foods and provides the answers to the discussion questions in the member guide. There is a charge for this publication. 3 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices.

735

Farm machinery safety.

Pfister, Richard G. Mack, Leslie A. Canja, Esther. 1973. This is one of a series of five leaflets on safety. It contains a list of safety practices when working around farm machinery and suggestions for learning to service machinery safely. There is a charge for this publication. 4 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices.

736

Feeling boxed in?

Parker, Charles A. 1979. This brochure describes the 4-H Walkabout program that helps youths accomplish things such as finding the right job, exploring leisure activities, and making capable decisions. The brochure, which folds out to a poster promoting the program, also describes the Walkabout internship program and Walkabout clubs. There is a charge for this publication. (6) 1 poster : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Senior High Level. Learning Experience: Decision making; Careers, earning and saving; Personal growth.

737

Find your bicycle day : bicycle brochure II.

Neff, Bonita Dostal. 1981. This brochure tells how to deal with the condition and proper fit of a bicycle after a period of not riding it and options to choose if a bike no longer fits a rider. Also covered are proper storage and bike registration. This is a cost publication. 1 brochure : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member, Leader; Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

738

Fish, fun, and fellowship.

Dudderar, Glenn. 1975. This bulletin introduces basic information about fish and fishing, including methods of fishing and kinds of tackle. It also includes information on the use of several kinds of live bait and instructions on cleaning and cooking fish. There is a charge for this publication. 17 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

739

Fish, fun, and fellowship - a guide for leaders and sponsoring organizations.
Dudderar, Glenn. 1975. This

leaflet is intended for the use of adults who are interested in fishing but are not associated with a youth group as well as adults who are associated with youth groups. It includes suggestions for organizing and conducting activities with individual youths and also with community or school groups. There is a charge for this publication. 4 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader Material; Staff Material; Senior High Level. Learning Experience: Knowledge, skills, practices.

740

Fishing for fun - leader's guide.

Fogle, Ned E. George, Robert W. 1979. This bulletin lists key concepts and a vocabulary of words germane to topics related to fishing. It discusses kinds of fishing and gives some general information on fish. It includes instructions on making a teaching kit and lists some references. There is a charge for this publication. 9 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader; Senior High Level. Learning Experience: Knowledge, skills, practices.

741

Fishing for fun - member's guide.

Fogle, Ned E. 1978. This bulletin teaches the parts of fishes and the identification of types of fishes. It also includes drawings of various types of fishing tackle and some fishing techniques. There is a section on where and when to fish and also a sportsmanship and safety guide. There is a charge for this publication. 19 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

742

Fix that rattle : bicycle brochure II.
Neff, Bonita Dostal. 1981.

Simple bicycle mechanical problems, their causes and possible solutions are covered in this brochure. Other available Michigan bicycle publications are also listed. This is a cost publication. 1 brochure :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member; Leader; Elementary, Junior, Senior and Adult Level. Learning Experience: Knowledge, skills, practices.

743

The Flashettes.
Michigan Cooperative Extension Service. 1979. This flyer is a discussion guide to be used with a film entitled "The Flashettes." The philosophy of the film is that track activities provide children and adolescents with excellent exercise and a chance to increase self-esteem, develop a sense of team cooperation and learn spirit, and to learn ways of expressing themselves. There is a charge for this publication. 3 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

744

Focus on leadership - a preview of 4-H.
Michigan 4-H Leadership Developmental Committee. 1972. First unit in this leadership series tells what 4-H is, who can be a 4-Her, what 4-H means, how it works, and the role of the leader. The 4-H pledge is printed on parchment-type paper on the last sheet of this bulletin. Unit comes in a folder into which any or all of the six units can be inserted. Charge for this publication. Entire series can be ordered in a single folder as 4-H 314. [13] p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader, Senior High Level. Learning Experience: Leadership skills.

745

Focus on leadership - getting to know us.
Michigan 4-H Leadership Developmental Committee. 1974. The second unit in this

leadership series provides information which would help a leader understand how young people grow and change. It describes their interests and relation to others at various age levels. There is a charge for this publication. [16] p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader, Senior High Level. Learning Experience: Leadership skills.

746

Focus on leadership - pathways to parent-leader communication.
Michigan 4-H Family Life Developmental Committee. 1978. The objective of the sixth unit in this series is to provide a beginning for a sharing between two of the many aspects of a 4-H'ers world - the 4-H organization and the family. Home environment and Parental Participation are discussed. There is a charge for this publication. [45] p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader. Learning Experience: Leadership skills.

747

Focus on leadership - planning together.
Michigan 4-H Leadership Developmental Committee. 1974. The third unit in this series outlines the 4-H development process by providing suggestions as to how members can set goals for themselves. It also contains a "group organizer" outline which helps to evaluate progress groups have made in attaining goals. There is a charge for this publication. 18 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader, Senior High Level. Learning Experience: Leadership skills.

748

Focus on leadership - reviewing the action.
Michigan 4-H Leadership Developmental Committee. 1974. The fifth unit in this series gives some tips on how to review what is happening for the leader, for the 4-H members, and for the group as a whole. There is a charge for

this publication. 11 p. : .
ill. Document available from:
4-H - Youth Programs
Publications, 175 South
Anthony, Michigan State
University, East Lansing,
Michigan 48824. Publication
intended for Leader, Senior
High Level. Learning
Experience: Leadership skills.

749

Focus on leadership - table of contents.

Michigan 4-H Leadership
Developmental Committee. 1978.
This is a listing of all of
the headings in each of the
six units contained in this
sequence of leadership
bulletins. There is a charge
for this publication. The
entire series can be ordered
in a single folder as 4-H 314.
4 p. Document available from:
4-H - Youth Programs
Publications, 175 South
Anthony, Michigan State
University, East Lansing,
Michigan 48824. Publication
intended for Leader, Senior
High Level. Learning
Experience: Leadership skills.

750

Focus on leadership - 4-H action.

Michigan 4-H Leadership
Developmental Committee. 1974.
The fourth unit in this series
helps leaders understand the
relationship of projects and
activities in 4-H and how they
may be used as learning
experiences for young people.
It also includes some tips for
successful meetings and
answers relevant questions
leaders might ask. There is a
charge for this publication.
18 p. : . ill. Document
available from: 4-H - Youth
Programs Publications, 175
South Anthony, Michigan State
University, East Lansing,
Michigan 48824. Publication
intended for Leader, Senior
High Level. Learning
Experience: Leadership skills.

751

Folkpatterns - concepts of shelter.

MacDowell, Marsha. 1979.
Booklet is the third in a
series of planned pieces which
will help young people learn
about their heritage. This one
covers the concepts of shelter
and encourages a study of
shelters for people, animals,
businesses, education,
religions, etc., throughout
the history of the country.
There is a charge for this
booklet. 8 p. : . ill. Document
available from: 4-H - Youth
Programs Publications, 175
South Anthony, Michigan State
University, East Lansing,
Michigan 48824. Publication

intended for Member, Junior
and Senior High Level.
Learning Experience:
Knowledge, skills, practices.

752

Folkpatterns - investigating cultural patterns.

MacDowell, Marsha. 1979. This
is an empty folder for the
Folkpatterns project material
(The first three pieces in
this series are also
available: 4-H 1123A, 4-H
1123B, and 4-H 1123C). As
members complete studies of
shelter, transportation,
communications, trade, etc.,
their information can be
inserted in this folder for
safekeeping. There is a charge
for this publication. folder
: . ill. Document available
from: 4-H - Youth Programs
Publications, 175 South
Anthony, Michigan State
University, East Lansing,
Michigan 48824. Publication
intended for Member, Junior
and Senior High Level.

753

Folkpatterns - report sheet.

MacDowell, Marsha. 1979. This
report sheet is the second in
a series of planned pieces
which will help young people
keep a record of the objects
and the people they
investigate in their search
for their cultural heritage.
There is a charge for this
publication. 2 p. Document
available from: 4-H - Youth
Programs Publications, 175
South Anthony, Michigan State
University, East Lansing,
Michigan 48824. Publication
intended for Member, Junior
and Senior High Level.
Learning Experience:
Knowledge, skills, practices.

754

Folkpatterns - research resource book.

MacDowell, Marsha. 1979.
Leaflet is the first of a
number of planned pieces which
will help young people learn
about their heritage. It
includes a few of the areas -
human and non-human resources
- which can be explored, and
suggestions on obtaining
information with tape
recorders and cameras. There
is a charge for this
publication. 4 p. : . ill.
Document available from: 4-H -
Youth Programs Publications,
175 South Anthony, Michigan
State University, East
Lansing, Michigan 48824.
Publication intended for
Member, Junior and Senior High
Level. Learning Experience:
Knowledge, skills, practices.

755

Food and people - discussion guide.
Michigan Cooperative Extension Service. 1969. This is a project outline and discussion guide on: Food and Hunger, World Food Problems, and Solving World Food Problems. The purpose is to focus public attention on these problems. There is a charge for this publication. 16 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Leader, Senior High Level. Learning Experience: Knowledge, skills, practices.

756

Food for fun.
Brink, Muriel S. 1966. This bulletin introduces the basic four food groups. It includes a few simple recipes for each of the groups and includes "science why's" in each category. There is a charge for this publication. 24 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member and Junior High Level. Learning experience: Knowledge, skills, practices.

757

Food science and you.
Mook, Marilyn C. 1975. This bulletin contains sixty-one cooking related experiments. Each states the principle to be tested, lists the equipment needed, and the procedure to be followed. An explanation of what happened and why follows in each case. There is a charge for this publication. 30 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

758

Food science and you, leader's guide.
Mook, Marilyn C. 1975. This leaflet simply outlines the procedures to be followed by th members in doing the projects outlined in the member's manual of the same name. There is a charge for this publication. [2] p. Document available from: 4-H - Youth Programs Publications,

175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader, Senior High Level.

759

Fun in large groups.
Peterson, Arden M. 1962. The games contained in this booklet are adapted for large groups and some can be used to divide large groups into smaller ones so that even the shy persons are included in the activities. Index and detailed descriptions of games are included. There is a charge for this publication. 12 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Leader, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

760

Fun in small groups.
Peterson, Arden M. 1961. The activities contained in this booklet are adapted for small groups with a limited space. Detailed descriptions of the activities are included. There is a charge for this publication. 14 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Leader, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

761

Go for a short ride :. bicycle brochure IV.
Neff, Bonita Dostal. 1981. This brochure presents safety tips bicyclists should consider before commuting to recreation activities. Bicycle falls, collisions, emergency maneuvers, and potential hazards are discussed. A list of bicycle publication resources is also included. This is a cost publication. 1 brochure :. ill. Part of a sequence. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member; Leader; Elementary, Junior High, Senior High and Adult Level. Learning Experience: Knowledge, skills, practices.

762

Group dynamite.

Pitrak, Paulette. Hoppfer, Leah. 1978. The group dynamite notebook is made up of seven modules which help groups learn and experience the skills of effective group process. It helps groups explore and experience the process by which they can move toward a common goal. There is a charge for this publication. viii, 211 p. in various pagings. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making. Social. Personal growth.

763

Growing as an athlete.

Heck, Kathleen. 1980. This pamphlet explains the strong points of both boys and girls and why girls are different, but not inferior, athletes. It also explains some of the physical problems encountered by young athletes. There is a charge for this publication. 1 p. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader, Senior and Adult Levels. Learning experience: Knowledge, skills, practices.

764

Growth and development - diet and exercise - A Leader's guide to health education activities.

Leduc, Mary Longe. Price, Robert D. 1977. This manual provides 4-H leaders with concise information regarding the growth and development of 9-12 year olds and allows them to provide 4-H members with information about their growth and development. Learning activities and other resources are included. There is a charge for this publication. 207 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

765

A guide for exhibiting and evaluating 4-H beef projects for 4-H beef leaders and judges.

Dunn, Richard J. Ritchie, Harlan. 1979. This handbook is

intended as a guide for 4-H leaders, Extension agents, show managers, show judges, and other individuals responsible for planning and conducting 4-H beef shows in Michigan. The purpose is to establish uniform regulations and procedures in judging and evaluating beef shows. There is a charge for this publication. 18 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices.

766

A guide for exhibiting and evaluating 4-H sheep projects for 4-H sheep leaders and judges.

Dunn, Richard J. Baertsche, Stephen. 1976. This handbook is intended as a guide for 4-H leaders, county Extension agents, show managers, show judges, and other individuals responsible for planning and conducting 4-H sheep shows in Michigan. There is a charge for this publication. 11 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader, Staff. Learning Experience: Knowledge, skills, practices.

767

A guide for exhibiting and evaluating 4-H swine projects for 4-H swine leaders and judges.

Dunn, Richard J. Hogberg, Maynard. 1976. This handbook is intended as a guide for 4-H leaders, Extension agents, show managers, show judges, and other individuals responsible for planning and conducting 4-H swine shows in Michigan. There is a charge for this publication. 19 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices.

768

A guide for the bicycle commuter.

Neff, Bonita Dostal. 1979. This booklet contains many pointers to be considered by the cyclist who wishes to use the bicycle for commuting. Some of these are: selection of the bicycle, size and fit,

posture and pedalling techniques, emergency maneuvers, traffic principles and law, road hazards, security, etc. There is a charge for this publication. 32 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

769

Handling materials safely.
Pfister, Richard G. Mack, Leslie A. Canja, Esther. 1973. This is one of a series of five leaflets on safety. It contains information on how to handle tools and other materials properly and also discusses situations where it is wise to use protective equipment, such as goggles, hard hats, and safety shoes. There is a charge for this publication. 4 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices.

770

The handyman - craftsman-woodworking project.
Michigan Cooperative Extension Service. 1964. This bulletin (the second of two member bulletins) contains sections on how to read drawings, how to lay out the job, selecting materials, and some information on wood finishing. There is a charge for this publication. 22 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

771

The handyman - Leader's guide - woodworking project.
Michigan Cooperative Extension Service. 1964. This bulletin the second of three leader guides contains detailed instructions on how to teach members how to select the proper wood, and how to make or apply wood fasteners. There is also information on tool conditioning and the use of portable electric drills and

sanders. There is a charge for this publication. 32 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

772

Health education.
Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations in health education. It contains career explorations tips and lists various career options in this field. There is a charge for this publication. 1 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

773

High on myself: a 4-H substance abuse prevention program.
Goth-Owens, Judy Ann. 1979. Notebook presents approaches to substance abuse prevention through a process that helps young people develop skills that they can use to help themselves. Focuses on the emotional development of the individual and opportunities for growth. Program is aimed at diverting people from drug abuse before it occurs. There is a charge for this publication. [44] p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

774

The home garden - beginner.
Taylor, J. Lee. 1962. This bulletin will help the member grow a good home vegetable garden. It covers such information as where to locate the garden, what to plant and how much, how to get the soils ready, etc. There is a charge for this publication. 16 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South

Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member and Junior High Level. Learning experience: Knowledge, skills, practices.

775

Horse and Pony.

Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations related to horses and ponies. It contains career exploration tips and lists various career options in this livestock field. There is a charge for this publication. 1 p. : ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving. Personal growth.

776

Horse and Pony Project Record Book.

Dunn, Richard J. 1979. This record provides spaces for project animal information, feed and boarding records, miscellaneous expenses, income for the project year, and the time spent in care of and riding the horse. The purpose is to provide a standard format for recording vital statistics about the horse. There is a charge for this publication. 8 p. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for member, junior and senior high levels. Learning experience: Knowledge, skills, practices.

777

Horseback riding for handicappers.

Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations related to horseback riding for handicappers. It contains career exploration tips and lists various career options related to this area. [2] p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making;

Careers, earning and saving; Personal growth. .

778

Horticulture.

Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations in horticulture. It contains career exploration tips and lists various career options in this field of plant study. There is a charge for this publication. 1 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

779

How do you decide? - Leaders guide.

Anderson, Beverly S. 1971. This bulletin is intended as a leader guide to help members follow the steps of think, plan, do, and evaluate in learning to make their own decisions. There is a charge for this publication. 5 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

780

How to select vegetables for exhibit - Leader's guide.

Taylor, J. Lee. 1973. This bulletin includes suggestions for the selection of vegetables to be exhibited as well as the manner in which they should be presented. 11 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

781

Indoor gardening.

Taylor, J. Lee. 1969. This bulletin contains information on the planting and care of house plants, dish gardens, terrariums, and winter bulbs.

There is also a section on creating plaques from dried materials. There is a charge for this publication. 25 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

782

International citizenship. Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations in international citizenship. It contains career exploration tips and lists various career options in this field of cultural study. There is a charge for this publication. 1 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

783

Junior electrical science. Fox, Robert. 1965. This manual the second of four is divided into two parts: The first part is about electrical equipment which includes wiring, motors, and lighting. The second part contains information on electronics and electrical science. 66 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

784

Karing for kids, leader's guide. Backus, Lennah K. 1972. Five topics to be used as a baby-sitting course for boys and girls ages 13 and over are covered: Knowing about kids, helping them learn, keeping them happy, protecting them, the business of baby-sitting. 16 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader; Senior High Level. Learning Experience: Knowledge, skills,

practices; Family.

785

Karing for kids, member's chart. Backus, Lennah K. 1972. The leader guide for the babysitting project (karing for kids) contains three charts which include information as to what young children are like and lists some of their needs. In this publication three charts are printed separately for the use of members in filling in information about children. There is a charge for this publication. 3 p. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Family.

786

Knowing our birds, Leader's guide. VanDeusen, R. D., George, Robert W. 1966. This leader guide may be used to help members identify birds in eighteen avian groups. Also available in this series on birds is the avian chart (Number 534.2) which also contains information on avian groups. There is a charge for this publication. 36 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level.

787

Landscape architecture. Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations in landscape architecture. It contains career exploration tips and lists various career options in this out-of-doors field. There is a charge for this publication. 1 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

788

Leader dog puppy orientation - leader's guide.
Michigan Cooperative Extension Service. 1976. This bulletin contains information on dog husbandry, internal parasites, and street orientation for helping members raise acceptable leader dog puppies. 11 p. : ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

789

Leader dog puppy orientation for 4-H members.
Michigan Cooperative Extension Service. 1976. This bulletin outlines the care needed in raising a puppy which will be turned over to the leader dog training facility in Michigan. There is a charge for this publication. 8 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

790

Leader's guide: kindergarten puppy training.
Michigan Cooperative Extension Service. 1968. This bulletin gives detailed information on the care of a new puppy. It includes information on what to do and what not to do in various situations. There is a charge for this publication. 19 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader; Senior High Level. Learning Experience: Knowledge, skills, practices.

791

Leisure education - sports.
Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations in leisure education-sports. It contains career exploration tips and lists various sport-related career options. There is a charge for this publication. 1 p. : ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan

State University, East Lansing, Michigan 48824. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving. Personal growth.

792

Leisure education-the arts.
Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations in leisure education-the arts. It contains career exploration tips and lists various career options in the world of fine arts. There is a charge for this publication. 1 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan 48824. Publication intended for Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

793

Lifelong skills.
Knoppers, Annelies. 1980. This pamphlet describes various points coaches should stress to help athletes develop lifelong activities in order to maintain physical fitness throughout their lives. Conditioning and nutrition aspects are discussed. There is a charge for this publication. 2 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

794

Livestock.
Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations in the livestock field. It contains career exploration tips and lists various career options relating to farm animals. There is a charge for this publication. 1 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

795

Livestock and pet safety.

Blank, Graydon. Dunn, Richard J. 1973. This is one of a series of five leaflets on safety. It contains information on how to approach horses and livestock and what to do if bitten or scratched by a dog or other small animal. 4 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices.

796

Livestock judging guide.

South Dakota State University. Extension Livestock Specialists. 1980. This bulletin is a reprint of a South Dakota State University Extension Service publication with slight revisions. It contains information on how to judge sheep, beef, and swine. It also includes the appropriate terms to use in giving oral reasons for placement of animals being judged. This is a cost publication. This bulletin replaces 575A. 19 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member; Leader; Senior High Level. Learning experience: Knowledge, skills, practices.

797

Living in a family.

Backus, Lennah E. 1967. This bulletins helps the members understand how any one family changes over a period of time and how it is possible to improve one's part in living in a family. An outline for analysis of family relationships is included. There is a charge for this publication. 23 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family.

798

Living in a family, leader's guide.

Backus, Lennah K. 1967. This bulletin contains suggested outlines for seven meetings to aid leaders in developing an

understanding of families and family life with their members. There is a charge for this publication. 16 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices; Family.

799

Make Up Your Own Mind.

Fenn, Geraldine G. - Montana State University. 1968. This decision-making guide was designed to help young people with ways to select, plan, and evaluate projects of their own choosing. Project evaluation guide and sample project are included. Follows very closely a Montana publication. There is a charge for this publication. 21 p. : ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for member, junior and senior high level. Leader's guide available. Learning experience: Knowledge, skills, practices.

800

Manage energy wisely -

activity guide: solar power. Field, Anne. Smith, Linda Lou. 1978. This leaflet contains suggestions for conducting experiments to measure temperatures in several situations. A work sheet is included. There is a charge for this publication. 2 p. Document available from 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Junior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

801

Manage Energy Wisely - Hair Dryers - Leader's guide.

Field, Anne. Smith, Linda Lou. 1978. This leaflet contains help for the leader whose 4-H members are conducting experiments with the drying capacity of several hair dryers or stylers. This is a cost publication. 2 p. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader, senior high level.

Learning experience:
Knowledge, skills, practices.

802

Manage energy wisely - hot water.

Field, Anne. Smith, Linda Lou. 1978. This leaflet suggests experiments to show the length of time required to heat water using various electrical appliances. A worksheet is included. There is a charge for this publication. 4 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member and Junior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices.

803

Manage energy wisely - hot water - Leader's guide.

Field, Anne. Smith, Linda Lou. 1978. This leaflet contains some helps for the leader whose 4-H members are conducting experiments on the length of time required to heat water using various electrical appliances. There is a charge for this publication. 3 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practice.

804

Manage energy wisely - leader guide: making toast.

Field, Anne. Smith, Linda Lou. 1978. This leaflet contains information for the leader whose 4-H members are conducting experiments on making toast by various methods. There is a charge for this publication. 1 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader; Senior High Level. Learning Experience: Knowledge, skills, practices.

805

Manage energy wisely - making toast.

Field, Anne. Smith, Linda Lou. 1978. This leaflet contains experiments to show the amount of energy used in making toast with a toaster, a

toaster-broiler, or a toaster-oven. There is a charge for this publication. 4 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member and Junior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices.

806

Manage energy wisely - popcorn.

Field, Anne. Smith, Linda Lou. 1978. This leaflet contains experiments to determine the total amount of energy used in popping corn using three different appliances. There is a charge for this publication. 4 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member and Junior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices.

807

Manage energy wisely - popcorn - leader's guide.

Field, Anne. Smith, Linda Lou. 1978. This leaflet contains suggestions for the leader whose 4-H members are conducting experiments with various methods of popping corn. There is a charge for this publication. 1 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader; Senior High Level. Learning Experience: Knowledge, skills, practices.

808

Manage Energy Wisley - Hair Dryers.

Field, Anne. Smith, Linda Lou. 1978. This leaflet suggests experiments to show the differences in drying capacity of several hair dryers. A worksheet is included. There is a charge for this publication. 4 p. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for member, junior high level. Leader's guide available. Learning experience: Knowledge, skills, practices.

809

Managing energy wisely - solar power - leader's guide.
Field, Anne. Smith, Linda Lou. 1978. This leaflet contains suggestions for the leader whose 4-H members are conducting experiments in measuring temperatures when the thermometer is placed in several different situations. There is a charge for this publication. 1 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader; Senior High Level. Learning Experience: Knowledge, skills, practices.

810

Michigan guide to 4-H - youth projects and activities.
Michigan 4-H Leadership Developmental Committee. 1977. This manual lists the projects and activities which were available to most Michigan 4-H groups at the time it was printed in 1977. Each topic includes objectives and suggested activities. There is a charge for this publication. 61 p. : ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

811

Michigan 4-H challenge program.
Place, Judith L. Risk, Paul H. Watson, Judith. 1978. Contrary to usual Extension Service procedures, this publication has been copyrighted because of the need to have only certified leaders for this high-risk project area. Sections of the manual include: leadership, food and nutrition, map and compass, campcraft, survival, pioneer & Indian skills, wilderness transportation, mountaineering, caving, confidence courses. 265 p. in various pagings. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader. Learning experience: Knowledge, skills, practices.

812

Moments for reflecting - The heart H.
Peterson, Arden M. 1964. The materials included in this

bulletin are intended as the beginning of a collection of ideas in inspirational things that will help the 4-H leader build ceremonials or rituals into the regular schedule of activities which will bring attention to the Heart H. There is a charge for this publication. 28, G-22. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Levels. Learning experience: Knowledge, skills, practices.

813

Musical mixers, folk games and dances.
Peterson, Arden M. 1959. The musical mixers portion of this booklet is made up of simple socializers. The folk games portion includes a wide variety of singing games as well as folk and couple dances. There is a charge for this publication. 41 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Leader, Senior High Level. Learning Experience: Knowledge, skills, practices.

814

Nutrition and sports.
Heck, Kathleen. 1980. This pamphlet presents the reasons foods from the four basic food groups should be eaten regularly and also the timing of types of food which should be eaten in pregame meals. There is a charge for this publication. 2 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

815

Our living environment - leader's guide.
George, Robert W. 1980. This bulletin lists the key concepts and project objectives for this project. Evaluation of the environment, resources and changes are discussed, with instructions for activities included. There is a charge for this publication. 9 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication

intended for Leader; Senior High Level. Learning Experience: Knowledge, skills, practices.

816

Our living environment - member's guide.

George, Robert W. 1980. This bulletin tells the story of conservation by comparing a clear river valley and a muddy river valley (members use Conservation Chart Number 530 with this bulletin). Introductory activities on soil, water, air, plants, animals, their habits and habitats are included. There is a charge for this publication. 17 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Junior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

817

Personal Appearance.

Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations related to personal appearance. It contains career exploration tips and lists various career options in this field. There is a charge for this publication. 1 p. : ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practice. Decision making. Careers, earning and saving. Personal growth.

818

Photography.

Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations in photography. It contains career exploration tips and lists various career options in this field. There is a charge for this publication. 1 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

819

Planning and conducting a trail ride.

Manning, Roger E. 1978. This bulletin draws attention to the many items to be considered in staging a trail ride. It covers planning the ride, conditioning one's self and the horse, preparing tack and equipment, lists camp site necessities, lists trail ride and camp boss duties, and describes the care of the horse during and after the ride. There is a charge for this publication. 8 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader. Learning experience: Knowledge, skills, practices.

820

Pocket pets - gerbils.

Ohio State University Cooperative Extension Service. 1980. The purpose of this project is to give interested 4-H'ers an opportunity to learn about and care for an animal. Originally printed by the Ohio Extension Service, minor changes were made for this Michigan publication. There is a charge for this publication. 11 p. : ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

821

Pocket pets - guinea pigs.

Ohio State University Cooperative Extension Service. 1980. The purpose of this project is to give interested 4-H'ers an opportunity to learn about and care for an animal. Originally published by the Ohio Extension Service, minor changes were made for this Michigan publication. There is a charge for this publication. 15 p. : ill. Document available from: 4-H Youth Programs Publication, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

822

Pocket pets - Leader's guide.
Michigan State University

Cooperative Extension Service. 1980. This leader guide includes a number of ideas for activities at 4-H meetings as well as specific information on the small animals designated as pocket pets. This leader's guide is to accompany four member guides. There is a charge for this publication. 22 p. :. ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

823

Pocket pets - rats and mice.
Ohio State University Cooperative Extension Service. 1980. The purpose of this project is to give interested 4-H'ers an opportunity to learn about and care for an animal. Originally printed by the Ohio Extension Service, minor changes were made for this Michigan publication. There is a charge for this publication. 15 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

824

Pocket pets hamsters.
Ohio State University Cooperative Extension Service. 1980. The purpose of this project is to give interested 4-H'ers an opportunity to learn about and care for an animal. Originally published by the Ohio Extension Service, minor changes were made in this Michigan publication. There is a charge for this publication. 16 p. :. ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

825

The preschooler.
Chavez, Jane Merry. 1965. This bulletin seeks to give 4-H'ers an understanding of preschoolers - what they are like, what their needs are, how they grow, how they are

alike or different, etc. An outline for analysis of activity is included. There is a charge for this publication. 20 p. :. ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family.

826

The Preschooler, Leader's guide.

Chavez, Jane Merry. 1965. This bulletin contains eleven photographs of children and a script for use in teaching 4-H members about preschoolers. Meeting outlines are also included. There is a charge for this publication. 9, [11] p. :. ill. Document available from: 4-H - Youth Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices. Family.

827

Rehabilitation of sports injuries.

Heck, Kathleen. 1980. This pamphlet describes the progression of activity which leads to the rehabilitation of injured body parts and the ability to regain strength, flexibility, and endurance. There is a charge for this publication. 2 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

828

Running.

Michigan 4-H Health Development Committee. 1980. This pamphlet covers the reasons for running, running style, what to wear, and includes some exercises which should be done before and after running. There is a charge for this publication. 3 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills,

practices.

829

Safety with chemicals.

Pfister, Richard G. Mack, Leslie A. Canja, Esther. 1973. This is one of a series of five leaflets on safety. It contains information concerning the safe use of chemicals and pesticides around the farm and the home. There is also some information on what to do in the case of an accident with chemicals. There is a charge for this publication. 5 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices.

830

Selecting and training horses.

Beissel, Judy. Kaplan, Laurie. 1977. This booklet discusses the various points to be considered in selecting and training horses which are to be used in the horseback riding program for handicappers. There is a charge for this publication. 11 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan. 48824. Publication intended for: Leader and Staff. Learning experience: Knowledge, skills, practices.

831

Self-Determined Projects - Leader's Guide.

Fenn, Geraldine G. - Montana State University. 1968. This leader discusses the relationship of project work and the purpose of Extension youth programs and contains suggestions for teen and adult leaders who wish to help young people set up their own projects. As with the member bulletin, a Michigan 4-H developmental committee followed very closely the original publication by Ms. Fenn of Montana State University. Charge for publication. 12 p. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader, senior high level. Learning experience: Knowledge, skills, practices.

832

Self esteem in sports.

Knoppers, Annelies.-1980. This pamphlet describes actions which enhance or reduce a player's self concept. The information is presented in letter form - the letters having been written as example by athletes to coaches to express their feelings in various situations. There is a charge for this publication. 2 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

833

Senior electrical science.

Surbrook, Truman, C. 1967. This manual (the third of four) is divided into 13 units which cover a wide range of subjects in general wiring, electric motors and controls, light and lighting, and electric heat. There is a charge for this publication. 43 p. : ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

834

Senior electrical science - part II - electronics.

Surbrook, Truman C. 1967. This manual (the fourth of four) is divided into eight units. The first three units deal with the fundamentals of electronics while the last five deal with electronic equipment. There is a charge for this publication. 46 p. : ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices.

835

Songs, finger plants, and creative activities for young children.

Brown, Jeanne. 1972. This manual is used in teaching baby-sitting skills. It contains suggestions of things sitters might do to amuse younger children. Also included are ten songs which have been reprinted by

Michigan with the permission of the music publishers. Any state wishing to reprint this material MUST obtain permission in their own right to use these songs. There is a charge for this publication. 25 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Family.

836

Sports for girls.

Heck, Kathleen. 1980. This pamphlet presents the facts which dispel several myths concerning participation of girls in sports events. There is a charge for this publication. 1 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

837

Sports myths.

Heck, Kathleen. 1980. This pamphlet presents the facts which dispel several myths concerning preparation for sports activities and the correct treatment of injuries, sore muscles, etc. There is a charge for this publication. 2 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

838

Starship self :. Leader's guide.

Parker, Charles A. 1980. This manual helps leaders focus on methods (e.g., a computer search) to help youths choose careers appropriate to their interests and lifetime goals. Various education and training experiences necessary to prepare for jobs are explored. This is a cost publication. 16 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Leader. Learning experience: Knowledge, skills,

practices; Family.

839

Starship self booklet.

Parker, Charles A. 1980. This manual, which is accompanied by separately numbered questionnaire and worksheet packets, focuses on methods (e.g., a computer search) to help youths choose careers appropriate to their interests and lifetime goals. Various educational and training experiences necessary to prepare for jobs are explored. 19 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Family. Decision making. Careers, earning and saving. Personal growth. Citizenship and community.

840

Starship self exploration packet.

Parker, Charles A. 1980. This publication, which should be used in conjunction with 4-H 1102A Starship Self Booklet, contains a questionnaire to use when interviewing a person who works at a job of interest to a youth. A follow-up worksheet with pertinent job questions and tips for site visit preparation are also included. 4 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Family. Decision making. Careers, earning and saving. Personal growth. Citizenship and community.

841

Starship self worksheet packet.

Parker, Charles A. 1980. These seven worksheets help a youth make career choices based on interests, lifetime goals, temperament, leisure activities, and physical strengths and capabilities. A list of "the five best jobs for me" is the end result of this material used to supplement the publication 4-H 1102A, Starship Self Booklet. 11 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State

University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Family. Decision making. Careers, earning and saving. Personal growth. Citizenship and community.

842

The stress connection - Leader's guide.
Goth-Owens, Judy Ann. 1980. This leader guide outlines a program intended to increase people's awareness of the impact of stress and is designed to help them increase their skills in coping with stress. There are sections on the impacts of stress as well as a section on helping kids cope with stress. There is a charge for this publication. 30 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

843

The stress connection discussion guide.
Griffin, Meg. 1981. This pamphlet is a discussion guide to accompany the slide-tape "The Stress Connection." It describes the 18-minute slide-tape on dealing with stress and tells what kind of discussion to hold before and after the presentation. This is a cost publication. 1 pamphlet. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Leader; Senior High Level. Learning Experience: Decision making; Personal growth.

844

The stress connection, kid's guide.
Goth-Owens, Judy Ann. 1980. This kid's guide outlines a program intended to increase kid's awareness of the impact of stress and is designed to help them increase their skills in coping with stress. There is a charge for this publication. 43 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning

Experience: Knowledge, skills, practices.

845

Take your family for a ride :: bicycle brochure III.
Neff, Bonita Dostal. 1981. This brochure stresses bicycling as a family activity by discussing special equipment for children such as helmets, rider seats, bike trailers, tandem bikes, etc. This is a cost publication. 1 brochure : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member; Leader; Elementary, Junior High, Senior High and Adult Level. Learning Experience: Knowledge, skills, practices.

846

Team up for outdoor meals.
Kerr, Mary E. 1979. In addition to recipes and menus for outdoor cooking, this bulletin outlines methods for team preparation of meals. It also includes instructions on how to prepare several types of cooking fires. There is a charge for this publication. 16 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

847

Team up for outdoor meals, leader's guide.
Kerr, Mary E. 1979. This leader guide includes suggested outlines for seven outdoor cooking meetings as well as several suggestions for demonstrations. There is a charge for this publication. 5 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices.

848

The toddler.
Chavez, Jane Merry. 1964. This bulletin seeks to give 4-H'ers an understanding of toddlers - why they are like, what their needs are, how they grow, how they are alike or different,

etc. It includes structured sessions and before/after analyses of interactions between children and adults. There is a charge for this publication. 23 p. : ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family.

849

The toddler, leader's guide. Chavez, Jane Merry. 1964. The bulletin contains seven photographs of a child and a script for the leader's use in teaching 4-H members about toddlers. Outlines for meetings are also included. There is a charge for this publication. 11 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices; Family.

850

Tractor safety. Pfister, Richard G. Mack, Leslie A. Canja, Esther. 1973. This is one of a series of five leaflets on safety. It discusses the causes of tractor accidents and lists items for a safety check of the tractor. There is a charge for this publication. 4 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices.

851

Understanding weather. Canja, Esther. Mack, Leslie A. Strommen, Norton. 1967. This is the first of a series of five bulletins on weather. It contains basic information on the relationships of air, sun, the earth, and water to our weather. There is a charge for this publication. 17 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Senior High Level. Leader's guide available. Learning

Experience: Knowledge, skills, practices.

852

Veterinary Science. Parker, Rosemary A. 1980. This publication, one of 23 career single concept sheets, helps youths explore occupations in veterinary science. It contains career exploration tips and lists various career options for the animal medicine field. There is a charge for this publication. 1 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

853

Weather maps and forecasting. Canja, Esther. Mack, Leslie A. Strommen, Norton. 1967. This is the third of a series of bulletins on the weather. It contains information on how to read weather maps, how to forecast weather by reading these maps and from cloud types and formations. There is a charge for this publication. 20 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

854

Wetlands affect you and me - leader's guide. George, Robert W. 1979. This bulletin lists the key concepts for this project and a vocabulary list germane to the subject matter. It includes instructions for carrying out the various activities listed and lists the materials needed for each activity. A project evaluation is included. There is a charge for this publication. 8 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices.

855

Wetlands affect you and me - member's guide.
 George, Robert W. 1979. This bulletin is a basic introduction to wetlands, such as types, their value, and the products which can be obtained from them. It also touches on the causes of their destruction and regulation of their uses. Project activities are included. There is a charge for this publication. 16 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

856
When something goes right discussion guide.
 Griffin, Meg. 1981. This pamphlet is a discussion guide to accompany the slide-tape "When something goes right." It describes the 20-minute slide-tape on self-concept and self-esteem and tells what kind of discussion to hold before and after the presentation. This is a cost publication. 1 pamphlet. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Leader; Senior High Level. Learning experience: Decision making; Personal growth.

857
Wildlife where you live - leader's guide.
 Dudderar, Glenn R. 1980. This bulletin includes information on organizing and conducting the project. It lists teaching options and points to consider when conducting field trips. It also includes sources for additional information and teaching aids. There is a charge for this publication. 20 p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader; Senior High Level. Learning Experience: Knowledge, skills, practices.

858
Wildlife where you live - member's guide.
 Dudderar, Glenn R. 1980. This bulletin helps youth discover and understand wildlife. It also shows the relationship of wildlife, habitat, and people

through two games for which pictures are included as a part of the manual. A number of additional activities are described. There is a charge for this publication. 24 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member; Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

859
The wonderful world of bicycles.
 McCarthy, Kevin. Walker, Donna. Neff, Bonita Dostal. 1979. This is a set of twenty posters bound in a pad (11 by 15 1/4 inches). They can be colored and exhibited to promote and teach bicycle safety. There is a charge for this publication. 20 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices.

860
Your 4-H market beef project.
 Dunn, Richard J. 1972. This bulletin contains information needed by the beginner in a market beef project. It begins with selection of calves and provides information on care, feeding, disease prevention and control, fitting and showmanship, and training calves for show. There is a charge for this publication. 33 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

861
Your 4-H market hog project.
 Blank, Graydon. Miller, E. C. Hogberg, Maynard. 1978. This bulletin contains information needed by the beginner in a market hog project. It begins with the selection of feeder pigs and provides information on care, feeding, health of the pigs, exhibiting and marketing the hogs, and a section on showing procedures. There is a charge for this publication. 8 p. : ill. Document available from: 4-H -

Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Level. Learning experience: Knowledge, skills, practices.

862

Your 4-H Market Lamb Project. Blank, Graydon. 1970. This bulletin contains information needed by the beginner in a market lamb project. It begins with selection of lambs and provides information on care, feeding, health of the lambs, exhibiting and marketing the lambs, and a section on showing procedures. Appendices include part of lamb and types of feeders. There is a charge for this publication. 7, [3] p. : ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

863

Your 4-H sheep breeding project. Blank, Graydon. 1974. This bulletin contains information needed by the beginner in a sheep breeding project. It begins with the selection of breeding ewes and provides information on care, feeding the sheep, care of the ewes during lambing time, how to care for orphan or disowned lambs, and how to dock and castrate lambs. Show ring procedures are also included. There is a charge for this publication. 23 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

864

Youth experiencing action. Schick, Lester H. 1981. This notebook contains guides describing steps for undertaking community action projects in several areas: safety, energy, gardening, health, recreation, people-to-people, entertainment, serving others, communication, and education. The guides also list potential roadblocks to the activities, variations, and other resources for information. This is a cost publication. 650 p. Document available

from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, MI 48824. Publication intended for: Member, Leader; Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Decision making; Personal growth; Careers, earning and saving; Citizenship and community.

865

4-H camp activity suggestions. Peterson, Arden M. 1970. In addition to ceremonies and program ideas for 4-H camps, this bulletin includes ideas for fun with songs; with skits and stunts; around the campfire; at the waterfront; in active games; with relays and contests; and around the table and in cabin groups. There is a charge for this publication. [58] p. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices.

866

4-H dairy science. Boyd, Louis J.-1969. This bulletin is designed to point out the many areas in which science is involved in dairying. The "whys" of dairying are emphasized. There is a charge for this publication. 25 p. : ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

867

4-H Flower Gardening. Emino, Sarah J. Emino, Everett R. Taylor, J. Lee. 1970. This bulletin includes information on planning the flower garden as well as information on arranging and exhibiting flowers. Also included are lists of annual, perennials, and bulbs commonly grown in a climate similar to Michigan's. Basic principles and elements of design are developed. There is a charge for this publication. 24 p. : ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High

Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

868

4-H flower gardening - leader's guide.

Taylor, J. Lee. Stinson, Richard F. 1963. This leader's guide is concerned with the planning, care, and maintenance of a flower garden. It includes more complete lists of annuals, perennials, and bulbs normally found in a climate similar to Michigan's than are included in the member guide of the same name. There is a charge for this publication. 37 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader, Senior High Level. Learning Experience: Knowledge, skills, practices.

869

4-H health awareness teams.

Hoopfer, Leah B. Manczak, Donna. 1980. This manual is designed to help teens start and maintain a 4-H Health Awareness Team. Communications projects such as health maintenance, nutrition, or health careers are explored, along with the changing concepts of health. There is a charge for this publication. 33 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Leader, Senior High Level. Learning Experience: Knowledge, skills, practices; Personal growth; Citizenship and community.

870

4-H is youth, parents, families, senior citizens, singles.

Michigan 4-H Family Life Developmental Committee. 1978. This flyer can be used as a parent fill-in handout in connection with the pathways to parent-leader communication bulletin. There is a charge for this publication. 5 p. : ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader. Learning experience: Leadership skills.

871

4-H Junior Showmanship manual.

Michigan Cooperative Extension Service. 1977. This manual outlines the points a good junior handler should display in competition. It includes illustrations for gaiting and information on the anatomy of dogs, including breed variance. Sample score cards used in judging are also included. There is a charge for this publication. 25 p. : ill. Document available from: 4-H Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Leader, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

872

4-H market livestock record book.

Dunn, Richard. 1976. This record provides spaces for project animal information, weight records, feed records, miscellaneous expenses, income for the project year, and a profit or loss statement. There is a charge for this publication. 7 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

873

4-H meeting suggestions.

Peterson, Arden. 1973. This bulletin includes information for planning and conducting meetings, including an outline for the actual conduct of a meeting. It also includes a sample initiation ceremony, a sample constitution, and sample bylaws. There is a charge for this publication. 10 p. Document available from: 4-H Youth Programs Publications, 175 South Anthony Michigan State University, East Lansing, Michigan 48824. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

874

4-H "P.A. Paths".

Michigan Cooperative Extension Service. 1977. This leaflet was developed in the format of a game to help young people evaluate completed clothing and personal appearance projects. There is a charge for this leaflet. 3 p. : ill. Document available from: 4-H -

Youth Programs Publications,
175 South Anthony, Michigan
State University, East
Lansing, Michigan 48824.
Publication intended for
Member, Junior High Level.

875

4-H partners - A two-way experience.

Michigan Cooperative Extension Service. 1977. Through the Michigan Partners of the Americas, Michigan 4-H - Youth Programs are currently involved in youth and community development programs with the State's Partner countries of Belize and the Dominican Republic. This booklet describes the ongoing programs. There is a charge for this publication. 16 p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Leader and Senior High Level. Learning experience: Social.

876

4-H weather project - leader's guide.

Michigan State University Cooperative Extension Service. 1967. This kit includes a resume of the five areas which are included in the study of the weather. It also contains four weather maps and several commercially printed leaflets which are helpful to the leader of a weather project. This leader guide covers a series of five member guides. There is a charge for this publication. 1 folder. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for Leader. Learning Experience: Knowledge, skills, practices.

877

4-H woodworking plan.

Michigan Cooperative Extension Service. 1975. This manual is used in conjunction with the two member manuals in the series. it contains woodworking plans for the apprentice, handyman, and craftsman levels of the woodworking project. There is a charge for this publication. [70] p. : ill. Document available from: 4-H - Youth Programs Publications, 175 South Anthony, Michigan State University, East Lansing, Michigan 48824. Publication intended for: Member, Leader, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

NEBRASKA

878

Acclimatization exercises.

Nebraska Cooperative Extension Service. 1980. This publication suggests exercises which will help members become comfortable in their outdoor surroundings and more aware of the need to conserve natural resources. 19 p. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

879

Action--I'm a police officer.

Moon, Leon A. 1979. Designed to give members insight into the police profession. This publication provides sample questions for interviewing a policeman and guides members in summarizing their information. [2] p. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Social; Careers, earning and saving; Personal growth; Citizenship and community.

880

Action--I'm a school teacher.

Moon, Leon A. 1979. This publication gives members suggestions for conducting an interview with a school teacher. From information gathered, members are asked to express their opinions on what it would be like to be a teacher. [2] p. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Social; Careers, earning and saving; Personal growth; Citizenship and community.

881

Action--I'm an officer.

Moon, Leon A. 1979. This publication suggests a method for providing each member the opportunity of being an officer in his/her club. Older, more experienced members take leadership roles

in teaching younger members.
[2] p. Document available
from: 4-H & Youth Development,
114 Agricultural Hall,
University of
Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Member;
Elementary Level. Learning
Experience: Knowledge, skills,
practices; Leadership skills;
Decision making; Personal
growth.

882

Action--I'm in sales.
Moon, Leon A. 1979. This
publication is designed to
give members the opportunity
to learn about the job of a
salesperson by interviewing,
and then spending time on the
job with someone who works in
sales. [2] p. Document
available from: 4-H & Youth
Development, 114 Agricultural
Hall, University of
Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Member; Junior
High Level. Learning
Experience: Knowledge, skills,
practices; Decision making;
Social; Careers, earning and
saving; Citizenship and
community.

883

Action--interviewing people.
Siffring, Donald. 1979. From
this publication, members
learn, through interviewing,
that there are varied opinions
on issues affecting a
community. Suggestions are
given for conducting
interviews and for topics to
be discussed in the
interviews. [2] p. Document
available from: 4-H & Youth
Development, 114 Agricultural
Hall, University of
Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Member;
Elementary and Junior High
Level. Learning Experience:
Knowledge, skills, practices;
Leadership skills; Decision
making; Social; Citizenship
and community.

884

**Action--My committee makes a
report.**
Moon, Leon A. 1979. An outline
for giving an oral committee
report is provided in this
publication. Responsibilities
of the committee chairperson
are stated, also. [2] p.
Document available from: 4-H &
Youth Development, 114
Agricultural Hall, University
of Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: General; Member;
Elementary Level. Learning
Experience: Knowledge, skills,
practices; Leadership skills;
Decision making; Personal

growth.

885

Action--the airplane ride.
Siffring, Donald. 1979. This
publication explains how
members can study ways in
which different parts of a
community interrelate by
examining the community from
an airplane. Suggestions are
given for studying aerial
photos and pre-flight
planning. [2] p. Document
available from: 4-H & Youth
Development, 114 Agricultural
Hall, University of
Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Member;
Elementary and Junior High
Level. Learning Experience:
Knowledge, skills, practices;
Decision making; Citizenship
and community.

886

**Adventures in conservation of
natural resources.**
Orr, John D. 1979. This guide
gives additional sources of
information for the leader, in
addition to giving assistance
in planning each session's
activities. 15 p. Document
available from: 4-H Youth &
Development, 114 Agricultural
Hall, University of
Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Leader. Learning
experience: Knowledge, skills,
practices. Decision making.
Personal growth. Social.
Citizenship and community.

887

**Adventures in conservation of
natural resources.**
Orr, John D. 1978. Group
activities in this manual
include observation of the
effects of a plant's reaction
to growth in limited light,
exploration of an animal's
habitat, and preservation of
animal tracks. 26 p. : ill.
Document available from: 4-H
Youth & Development, 114
Agricultural Hall, University
of Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Member,
Elementary, Junior and Senior
High Levels. Leader's guide
available. Learning
experience: Knowledge, skills,
practices. Family. Social.
Careers, earning and saving.

888

Aerial photos.
Siffring, Donald. 1979. The
activities in this publication
are designed to give the
member practice in reading
aerial photographs. The growth
of a town and the condition of

surrounding land are also discussed. 6 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Citizenship and community.

889

Alcohol decisions. Rottmann, Leon H. 1980. This publication stresses the seriousness of alcohol abuse in the United States, dealing with specific facts and myths related to alcohol. Members are asked to express their attitudes concerning alcohol and to test their reactions to hypothetical situations involving alcohol consumption. 11 p. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member; Junior and Senior High level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth; Citizenship and community.

890

Analyzing diet through the dietcheck computer program. Kohn, Harriet. Young, Betty. Rottman, Leon. 1979. This publication shows members how to use a computer program to analyze dietary strengths and weaknesses. It encourages members to set dietary goals, and to stick to them. The computer program used is available through the AGNET system. 7 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Personal growth.

891

Analyzing eating habits through food records. Kohn, Harriet. Young, Betty. Rottman, Leon. 1979. This guide features a daily food record form, to assist the member in analysis of daily eating habits. Also included are suggestions on how to burn off extra calories, and ways to break eating habits. 11 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of

Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Family. Decision making. Social. Personal growth.

892

Arc welding. Wendorff, U. E. Schmidt, K. S. 1972. Quiz sheets for each unit, as well as suggestions for demonstrations, are outlined in this manual. Safety considerations are also given attention here. 12 p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Leader. Learning Experience: Knowledge, skills, practices.

893

Arc welding manual. Wendorff, U. E. Schmidt, Kenneth G. 1971. Welding in different positions, as well as making different types of welds, are covered in this manual. Activities include making a Christmas tree stand, and a welding table. 27 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member; Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

894

Autographs. Nebraska Cooperative Extension Service. 1978. This publication is for new 4-H members. Its purpose is to acquaint 4-H leaders and other members with a new member, and to introduce 4-H to the child's parents. 3 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices. Personal growth. Family. Social. Citizenship and community. Learning skills. Leader's guide available.

895

Be a gardener I. Hoadley, Brent. 1977. In addition to giving a basic outline for the beginning gardener, this publication

also covers early and late crops, garden arrangement, and soil preparation. 12 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Family. Leader's guide available.

896

Be a gardener I, Leader's Guide.

Hoadley, Brent. 1977. This publication suggests activities to go along with the member guide. In addition, tour possibilities and additional information sources are given. 4 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices. Decision making. Family.

897

Be a gardener II.

Hoadley, Brent. 1978. This publication has information on fertilization, hardening off of garden transplants, and succession planting. The advanced gardener will grow 12 kinds of vegetables, in addition to learning how to apply the proper herbicides and insecticides. 16 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Family.

898

The big e--energy :. leaders guide for Units 2 & 3.

Panarelli, Madeleine. 1980. This manual is designed for the 4-H leader to use with member units 2 and 3. It contains an overall planning guide with suggestions and instructions for games, demonstrations, and experiments stressing energy awareness and conservation. 29 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Leader; Senior High Level. Learning experience: Knowledge, skills,

practices; Family; Decision making; Citizenship and community.

899

The big e--energy :. Unit 2 member guide.

Panarelli, Madeleine. 1980. This guide first familiarizes the member with energy terminology and then furnishes directions for experiments illustrating energy consumption and conservation. It also initiates questions to the member concerning energy problems and offers a list of energy resources. 39 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member; Junior High Level. Learning experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; Citizenship and community.

900

The big e--energy :. Unit 3 member guide.

Panarelli, Madeleine. 1980. Designed to encourage responsibility for energy conservation, this guide provides experiments for increasing awareness of energy waste and activities aimed at developing wise energy use. Also included are information on energy careers and energy resources. 26 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member; Senior High Level. Learning experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; Personal growth; Citizenship and community.

901

The big e energy.

Panarelli, Madeleine. 1979. This booklet contains a variety of activities and exercises, including construction of draft detectors, weatherstripping, draft correction, and saving fuel and water. 41 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Elementary and Junior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making. Family. Leadership skills.

902

The big e energy, leader's guide.

Panarelli, Madeleine. 1979. Included in this publication are activities not in the member manual; such as trips, presentations and games, to make ideas clearer for members. Also covered are careers dealing with energy, and a list of additional publications. 30 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making. Family.

903

Ceremonies in the out-of-doors.

Orr, John D. 1979. This guide gives ideas and instructions for outdoor ceremonies, including flag ceremonies, inspirational stories, and thoughts for the day. It is aimed specifically at camp ceremonies. 26 p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Leadership skills. Social. Personal growth. Citizenship and community.

904

Children's zoo guide.

Otto, Rebecca. 1978. This map is a color-me guide to the Children's Zoo in Lincoln, Nebraska. It gives information on animals, as well as explaining terms associated with different animal types. The idea could be adapted for zoos in other cities. [2] p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Social; Personal growth.

905

Cigarette smoking--yes or no.

Rottmann, Leon H. 1979. This publication is designed to help members decide whether or not to smoke by making them aware of the potential hazards of smoking and of the advantages of not smoking. Experiments and surveys comparing smokers and

nonsmokers are included along with suggestions on how to stop smoking. 15 p. : ill. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Family; Decision making; Social; Personal growth; Citizenship and community.

906

Clothing unlimited.

Skinner, Gail. 1979. This manual gives the member a variety of ideas on creative clothing, encompassing such areas as textile performance, clothing coordination, and recycling or remodeling of unworn garments. 38 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Careers, earning and saving; Personal growth.

907

Clothing unlimited, leader's guide.

Skinner, Gail. 1979. Activities for the leader to initiate are included in this guide. Some of them are: inviting members to do a clothing inventory, having members experiment with accessories, and helping members identify three types of fabric construction. 8 p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Family. Leadership skills. Decision. Social. Careers, earning and saving. Personal growth.

908

County extension agent's 4-H handbook.

Caldwell, William E. Skucius, Elaine. Schmidt, Kenneth. 1979. This publication explains the responsibilities of the county agent in regard to 4-H operation in each county. The use of volunteer workers and development of long-term goals and programs are discussed in the manual. 15 p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln,

Nebraska 68583. Publication intended for: Staff. Learning experience: Knowledge, skills, practices. Leadership skills. Decision making. Social. Personal growth. Citizenship and community.

909

Creative clothing...opening the door.

Skinner, Gail. 1975. This guide is designed to help young girls and boys learn how to look at themselves in terms of posture, grooming, and clothing. Several items are included, with directions, for the novice in clothing construction. 55 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Elementary and Junior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Family. Decision making. Social. Personal growth.

910

Creative clothing...opening the door, leader's guide.

Skinner, Gail. 1975. This guide prepares the leader for problems members may have while sewing, as well as giving suggestions for games and exhibits of members' work. 30 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Family. Decision making. Social. Personal growth.

911

Customize your diet.

Nebraska Cooperative Extension Service. 1980. This publication encourages members to set dietary goals and to adapt their diets to meet individual needs. Food styles, body design, appearance and fitness are discussed. 26 p. : ill. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Social; Personal growth.

912

Decorating your duds.

Schluckebier, Mary. 1978. This guide gives information on the balance and proportioning of clothing decoration. Details on creating a center of interest and creating a sense of unit in clothing are included. Additional sources of information are also given. 11 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

913

Design all around, cents and sense.

Gabb, Betsy. 1976. The eighth and final in a series on interior design, this examines the values related to a personal environment. Shopping tips are also featured. The entire packet is available under number EC 11-70-76. [3] p. : ill. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; Personal growth.

914

Design all around, do you remember.

Gabb, Betsy. 1976. This is the second of a series on interior design. This publication deals with the various elements of design: color, texture, line, shape, form, space. The entire series is available under number EC 11-70-76. [3] p. : ill. Document available from: 4-H Youth and Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving.

915

Design all around, position your possessions.

Gabb, Betsy. 1976. The fourth in a series of fact sheets on interior design, this deals with room arrangement and developing floor plans. Grid paper and cutouts are used for

the exercise. The complete packet is available by ordering number EC 11-70-76. [5] p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving.

916

Design all around, stash it and stuff it.

Gabb, Betsy. 1976. The seventh in a series of fact sheets on interior design, this sheet challenges the reader to find ways to store and collect things. The entire packet is available under number EC 11-70-76. [2] p. : ill. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making.

917

Design all around, the finished product.

Gabb, Betsy. 1976. The fifth in a series of fact sheets on interior design, this deals with finishing and refinishing furniture, sources for furniture, a brief history of furnishings. The entire packet is available under number EC 11-70-76. [3] p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making.

918

Design all around, thingamajigs and other doodads.

Gabb, Betsy. 1976. The sixth in a series of fact sheets on interior design, this sheet deals with accessories, wall hangings, paintings, plants, pillows and plant hangers. The entire packet is available under number EC 11-70-76. [2] p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln,

Nebraska 68583. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making.

919

Design all around, visual variety.

Gabb, Betsy. 1976. This is the third in a series of fact sheets on interior design. The entire packet is available under the number EC 11-70-76. Color, hue, texture, flooring, wallcovering and fabrics are discussed. [4] p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving.

920

Design all around, what's it all about.

Gabb, Betsy. 1976. This is the first of a series of fact sheets on interior design. The entire packet is available under the number EC 11-70-76. This sheet is an introductory letter to members. 1 leaf. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving.

921

Design all around you, leader's guide.

Gabb, Betsy. 1976. This guide gives the leader topics for discussion, as well as providing additional sources of information for affiliated 8 units. The major emphasis of each unit is given in this guide, in addition to suggested planned activities. 11 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving.

922.

Do your thing.

Nebraska Cooperative Extension Service. 1976. Project selection is explained for those who want to find a self-determined project to fit their needs. Members are encouraged to look at the benefits to others, as well as to themselves, in performing a self-determined activity. 11 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Elementary, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making. Personal growth.

923

Do your thing, leader's guide.

Nebraska Cooperative Extension Service. 1978. Listening, watching, and asking questions are the three keys to leading a self-determined project. Recommendations on how to encourage 4-H members in their own projects and information on evaluation of activities are also given. 2 p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

924

Embryology.

Gleaves, Earl W. Bigbee, Daniel E. Johnson, C. Dean. 1980. This booklet gives the 4-H member information on the development of the chicken within the egg, as well as giving tips on correct incubation practices. 12 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Elementary, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Leadership skills. Decision making. Careers, earning and saving.

925

Embryology, leader's guide.

Johnson, C. Dean. Gleaves, Earl W. 1976. This publication gives the leader information on problems members may have, and details on how to rectify these problems to produce healthy chicks. Information on

dyeing chicks is also available. 15 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving.

926

The energy challenge :. student/member book.

Nickisch, Marge Hill. 1980. This manual is to be used with the TV series to help participants acquire and apply energy knowledge in becoming effective energy consumers through wise energy utilization and conservation. Four lessons are presented using energy terminology and supplemental activities. 24 p. : ill. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Social; Personal growth; Citizenship and community.

927

The energy challenge :. teacher/leader guide.

Nickisch, Marge Hill. 1980. This guide, for use by the teacher/leader gives objectives for each lesson, answers to activity sheets, teaching suggestions, and energy-related ideas for bulletin boards, demonstrations and suggested readings. 30 p. : ill. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices; Decision making; Social; Careers, earning and saving; Personal growth; Citizenship and community.

928

Entomology manual.

Roselle, Robert E. 1971. This booklet contains a section on the collection and mounting of insects, as well as one on insect identification by order. Activities include optional projects, such as beekeeping, as well as regular activities, such as insect display. 23 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication

intended for Member, Junior and Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

929

Exploring foods & nutrition.
Nebraska Cooperative Extension Service. 1981. The purpose of this manual is to encourage originality and initiative in members by assisting them in developing and implementing their own projects relating to foods and nutrition. The manual provides ideas for projects and samples of completed projects. 37 p.
Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member; Junior and Senior High Level.
Learning Experience:
Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; Personal growth.

930

Exploring Lincoln Center.
Caldwell, William. Gessaman, Paul. Olsen, Duane. Panarelli, Madeleine. 1980. This poster/map is designed to guide members through downtown Lincoln, NE, calling their attention to numerous commercial, governmental, recreational and cultural aspects of the city. 1 sheet.
Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member; Elementary, Junior High Level.
Learning Experience:
Knowledge, skills, practices; Social; Citizenship and community.

931

The family album.
Siffring, Don. 1979. This guide provided a graph for the member to record family names for several generations and to investigate the backgrounds of their ancestors. [3] p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Social; Personal growth; Citizenship and community.

932

Fashion flair - denim.

Skinner, Gail. 1976. Part of EC 4-20-76, this fact sheet discusses denim and the seams used when sewing this fabric. The flat-felled, double-welt, fringed, "inside out", Long John seams are all illustrated. [4] p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels.
Learning experience:
Knowledge, skills, practices.

933

Fashion flair - fabric facts.
Skinner, Gail. 1976. Part of EC 4-20-76, this fact sheet deals with fabric. An examination of fabric types, shrinkage, and strength is included. [4] p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels.
Learning experience:
Knowledge, skills, practices. Decision making. Careers, earning and saving.

934

Fashion flair - games.
Skinner, Gail. 1976. Part of EC 4-20-76, this sheet uses sewing terms as the answers to crossword puzzles. Clues and answers deal with both sewing terminology and fabric characteristics. [3] p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels.
Learning experience:
Knowledge, skills, practices. Decision making.

935

Fashion flair - getting it together.
Skinner, Gail. 1976. Part of EC 4-20-76, this fact sheet discusses proportion, balance, emphasis, rhythm, and unity as related to clothing and sewing. [4] p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels.
Learning experience:
Knowledge, skills, practices. Decision making. Careers, earning and saving.

936

Fashion flair - have it your way!

Skinner, Gail. 1976. Part of EC 4-20-76, this fact sheet demonstrates to members the ways of personalizing and adapting a pattern to the individual by creative ideas, smocking, quilting, stitching, top stitching, patchwork, belts and buttons are considered. [4] p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving.

937

Fashion flair - hey, look me over!

Skinner, Gail. 1976. Part of EC 4-20-76, this fact sheet helps the member to evaluate the garment produced. Clothing is judged on design and color, fabrics and trimmings, neatness, construction and value in relation to cost. [4] p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving.

938

Fashion flair - Interfacing.

Skinner, Gail. 1976. Part of EC 4-20-76, this fact sheet explains the purpose, types, selection and use of interfacings in sewing. A chart with analysis of interfacing fabrics is included. [4] p. : ill. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

939

Fashion flair - knits, part I.

Skinner, Gail. 1976. Part of EC 4-20-76, this fact sheet discusses the fundamental techniques associated with the use of knits in clothing. Choosing patterns, cutting and marking, sewing and pressing of knits are included. [4] p. : ill. Document available from: 4-H Youth & Development, 114

Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving.

940

Fashion flair - knits, part II.

Skinner, Gail. 1976. Part of EC-20-76, this fact sheet discusses special techniques for stretchy knits in sewing. Application of an exposed zipper, sleeves, rib trim at the collar and waistline are discussed. [3] p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

941

Fashion flair - lingerie and sleepwear.

Skinner, Gail. 1976. Part of EC 4-20-76, this fact sheet explains the types of lingerie and sleepwear possible and discusses choosing a pattern, cutting and marking, sewing techniques and the use of elastic. [2] p. : ill. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for General, Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

942

Fashion flair - now you see it - now you don't.

Skinner, Gail. 1976. Part of EC 4-20-76, this fact sheet deals with color, line and optical illusions in fabric. Texture is also discussed. [4] p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving.

943

Fashion flair - permanent press fabrics.

Skinner, Gail. 1976. Part of

EC 4-20-76, this fact sheet explains permanent press fabrics, and discusses choosing a pattern, cutting and marking, sewing and pressing techniques. [2] p. :. ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska, 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving.

944

Fashion flair - pile fabrics. Skinner, Gail. 1976. Part of EC 4-20-76, this fact sheet details the use of pile fabrics when sewing. Description of pile fabrics, choosing a pattern, cutting and marking, sewing and pressing techniques are included. [2] p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

945

Fashion flair - plaids and stripes. Skinner, Gail. 1976. Part of EC 4-20-76, this fact sheet discusses the use of plaids and stripes, choosing a pattern, cutting and marking, sewing techniques. [4] p. :. ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving.

946

Fashion flair - sheer fabrics. Skinner, Gail. 1976. Part of EC 4-20-76, this fact sheet deals with sheer fabrics and types of seams used in sewing these fabrics. French seam, mock french seam, double-stitched seam, self-bound seam, flat-felled seam are all illustrated. [4] p. :. ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

947

Fashion flair - stepping out with fashion flair. Skinner, Gail. 1976. Part of EC 4-20-76, this introductory piece questions members on their sewing skills. Checklist assessment is used. [2] p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Careers, earning and saving.

948

Fashion flair - swimwear. Skinner, Gail. 1976. Part of EC 4-20-76, this fact sheet explains the types of fabrics used when sewing swimwear, buying a pattern, cutting and marking, sewing techniques used in the construction of swimwear. [2] p. :. ill. Document available from: 4-H Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

949

Fashion flair - the big mix up. Skinner, Gail. 1976. Part of EC 4-20-76, this fact sheet offers hints to members to make the mixing and matching of fabrics and colors successful. Uses "fashion arithmetic" to help the member realize the economy in combining pieces of a wardrobe. [4] p. :. ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving.

950

Fashion flair - watch those bolts! Skinner, Gail. 1976. Part of EC 4-20-76, this fact sheet discusses the fabrics and characteristics of fibers composing each type. Also discussed is the durability of basic fabrics and resistance to wrinkling, high temperatures and types of washing. [4] p. :. ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University

of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving.

951

Fashion flair - what you see is what you get.

Skinner, Gail. 1976. Part of EC 4-20-76, this fact sheet helps the member to assess personal appearance. Relates the way a person feels about self to the clothing worn. [3] p. : . ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Social. Personal growth.

952

Fashion flair - wool and wool blends.

Skinner, Gail. 1976. Part of EC 4-20-76, this fact sheet discusses the use of wool and wool blends, shrinking wool fabrics, cutting and marking, sewing and pressing techniques of wool. [2] p. : . ill. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

953

Fashion flair - you've got me in stitches.

Skinner, Gail. 1976. Part of EC 4-20-76, this fact sheet helps members to determine the difficulty of a particular pattern in sewing. A checklist is also included to assess the type and degree of difficulty in the fabric used. [2] p. : . ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving.

954

Feeding 4-H market calves. Williams, Dave. 1978. Feed combinations and suggested

growing rations are given in this guide to cattle production. Attention is also given to finishing as it pertains to different breeds and the attainment of a choice grade. 7 p. : . ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member and Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving.

955

Finding facts about your community.

Gessaman, Paul H. 1979. With this publication, members will learn how to use reference materials to gather facts about their community. Included is a discussion of topic selection and the various information sources. 11 p. : . ill. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth; Citizenship and community.

956

Fun in 4-H with Jack & Judy.

Rottman, Dr. Leon. Kreutz, Barbara. Skinner, Gail. Skucius, Elaine. Pfister, Magdalene. Diedrichsen, Ethel. Jack and Judy show beginning 4-H members how to do a variety of useful things, such as sewing appliques on their jeans, wrapping gifts, and learning about being responsible for spending money. 31 p. : . ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Careers, earning and saving; Personal growth.

957

Fun in 4-H with Jack & Judy, leader's guide.

Rottman, Dr. Leon. Kreutz, Barbara. Skinner, Gail. Pfister, Gail. Diedrichsen, Ethel. Skucius, Elaine. 1976. Activities for the leader to initiate include a shopping

expedition, making banks for members to categorize their savings, and explaining food groups. Instructions for other activities are also given. 14 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Leader. Learning experience: Knowledge, skills, practices; Family; Decision making; Social; Careers, earning and saving; Personal growth.

958

Gardening for profit.

Janssen, Donald E. Steinegger, Donald H. 1980. Everything from produce pricing, to accounting for profits and losses in managing a produce sales operation is covered in this guide. Activities include sign construction, location selection, and garden design for maximum and extended production. 14 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Personal growth. Family. Social. Citizenship and community. Careers, earning and saving.

959

Gerbil, Hamster & Guinea Pig. Holder, David P. 1974. This guide provides the beginning animal owner with information on the space, cage types, and exercise requirements of guinea pigs, gerbils, and hamsters. 7 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member and Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making.

960

Get set and go with design. Pfister, Magdalene. 1977. A sensitivity to design and arrangements of table settings and harmony and unity of table furnishings is introduced in this publication. Activities include construction of different table accessories, such as bowls, mats, and center pieces. 23 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln,

Nebraska 68583. Publication intended for: Member, Elementary and Junior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Family. Social. Personal growth.

961

Get set and go with design, leader's guide.

Pfister, Magdalene. 1977. Guidelines are given for the leader in this manual, to better help members realize atmosphere, and relationship in their table settings. Discussion items are also included. 11 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Family. Social. Personal growth.

962

Getting started in 4-H demo talks.

Schmidt, Kenneth. 1975. This guide explains the role of using visual information, as well as verbal, in giving effective demonstrations. . Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member, Elementary Level, Junior High Level. Learning Experience: Knowledge, skills, practices; Social; Personal growth.

963

Getting to know range plants.

Stokely, Harry. Buk, Jerry, Schmidt, Ken. Baxter, Neal. 1980. A range plant scavenger hunt and identification of plants in four different groups are only two of the activities planned in this booklet. Identification of plant growth habits and plant parts are also included. 15 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

964

The green community: a youth workbook for plant science.

Rudman, Louie E. 1979. This guide explains six aspects of a plant in the "green

community", seeds, roots, stems, leaves, flowers, and plants in interaction with other plants. 10 p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Elementary and Junior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

965

The green community: teacher-leader guide for plant science series.

Rudman, Louie E. 1979. Activities for the member manual are included in this guide. The making of home-made paper and a plant mapping expedition are included, as well as additional sources of information and discussion questions. 18 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Leader. Learning experience: Knowledge, skills, practices.

966

Guide to Leadership I and II. Skucius, Elaine. Goeke, Kathy. 1979. This publication gives discussion questions for the leader to use to make member material more understandable. In addition, there are several activities which will help members put into practice what they are learning in Leadership I and II. 15 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Leadership skills; Decision making; Social; Personal growth; Citizenship and community.

967

A guide to 4-H food preservation. Diedrichsen, Ethel. 1976. This guide gives suggestions for uses of canned and frozen food, as well as some basic instructions for home canning and freezing. A list of other information sources is also included. [4] p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member and Junior and Senior High Levels. Learning experiences:

Knowledge, skills, practices. Decision making. Family.

968

A guide to 4-H food preservation. Diedrichsen, Ethel. 1976. Further information on food preservation is given in this guide. Some major topics are food spoilage organisms, and canning low-acid vegetables. A list of additional information is also included. 4 p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Family. Decision making. Personal growth.

969

Health careers :. Section VI of the share ... care 4-H Project in Health. Young, Betty. Rottmann, Leon. 1980. This publication is section VI of the Share...Care health series and is designed to give members information on possible careers in the health field. Specific professions are discussed, along with educational requirements and statistics concerning application into health programs. 19 p. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

970

Health record. Kohn, Harriet. Young, Betty. Rottman, Leon H. 1980. This record book contains charts for the member to record individual and family health factors, which may effect their well-being later on, and in the present. 19 p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Family. Personal growth.

971

Health risk profile.

Kohn, Harriet. Young, Betty. Rottman, Leon. 1980. This publication outlines health risk factors for different age groups. Its purpose is to allow the member to see those factors which could adversely effect health in the future. It also makes mention of various methods for reducing various risks. 31 p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices. Family. Decision making. Social. Personal growth.

972

Home-made incubator with automatic temperature regulator.

Nebraska Cooperative Extension Service. 1978. This one-page gives detailed instructions on the building of an egg incubator. 1 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

973

I'm an elected official.

Moon, Leon A. 1979. The activity planned in this publication involves an interview with an elected official. The member will spend half a day observing the public official's duties. 2 p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices. Leadership skills. Social. Personal growth. Citizenship and community.

974

Job search.

Nebraska Cooperative Extension Service. 1980. This publication is a worksheet designed for use with the AGNET Job Search computer program. Participants make choices concerning their preferences as to career characteristics; data is then entered into the computer as a basis for a career exploration print-out. [6] p. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln,

Nebraska 68583. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Social; Careers, earning and saving; Personal growth; Citizenship and community.

975

Know your heritage.

Nebraska Cooperative Extension Service. 1975. Exploration of the past and its effect on the present is the major focus of this publication. Members are encouraged to read books about early Nebraska settlers, as well as form a family tree. Information on career choices is also available. 24 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Social; Careers, earning and saving; Personal growth; Citizenship and community.

976

Leader program outline for you--a competent teen consumer.

Wilson, Janet. 1977. This guide gives activities for use with the member manual. It's aim is to show that motivations are important factors in consumer decisions, and that examining them may reveal a better way to the same end. 4 p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth; Citizenship and community.

977

Leader's guide for the new member's packet.

Nebraska Cooperative Extension Service. 1979. This guide gives the 4-H leader suggestions on how to involve the parents of new members in 4-H activities, as well as giving the leader guidelines on working with youth. [4] p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Family. Leadership

skills. Decision making.
Social. Careers, earning and
saving. Personal growth.
Citizenship and community.

Learning Experience:
Knowledge, skills, practices;
Leadership skills; Decision
making; Social; Personal
growth; Citizenship and
community.

978

Leader's guide to community involvement.

Gessaman, Paul H. Siffring,
Donald D. Moon, Leon A. 1980.
Designed for use with the
Community Involvement series,
this guide provides leaders
with an explanation of the
importance of effective
community participation and
gives an analysis of each
activity in the series,
including objectives,
preparation and intended age
levels. 40 p. : ill. Document
available from: 4-H & Youth
Development, 114 Agricultural
Hall, University of
Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Leader; Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Family; Decision
making; Social; Careers;
earning and saving; Personal
growth; Citizenship and
community.

979

Leadership I.

Skucius, Elaine. Goeke, Kathy.
1979. Leadership and group
roles are discussed in this
booklet, and ways of
developing an individual's
leadership qualities are
examined. Learning how to
build on writing, speaking,
and decisionmaking skills are
activities included in this
guide. 19 p. : ill. Document
available from: 4-H Youth &
Development, 114 Agricultural
Hall, University of
Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Member,
Elementary, Junior and Senior
High Level. Leader's guide
available. Learning
Experience: Knowledge, skills,
practices; Family; Leadership
skills; Decision making;
Social; Personal growth.

980

Leadership II.

Skucius, Elaine. Goeke, Kathy.
1979. Activities included in
this publication are an
analysis of leadership styles
and an analysis of
decisionmaking processes.
Successful communication and
group effectiveness are also
discussed. 15 p. : ill.
Document available from: 4-H
Youth & Development, 114
Agricultural Hall, University
of Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Member, Junior
and Senior High Level.
Leader's guide available.

981

Let's create crafts.

Orr, John D. 1977. Information
on a variety of projects is
given in this manual. Included
topics are woodburning,
decoupage, feather projects,
and egg shell art. Other
references are listed. 18 p.
: ill. Document available
from: 4-H Youth & Development,
114 Agricultural Hall,
University of
Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Member,
Elementary, Junior and Senior
High Levels. Learning
experience: Knowledge, skills,
practices. Decision making.

982

**Lifestyle :. Section V of the
share ... care 4-H Project in
Health.**

Kohn, Harriet. Young, Betty.
Rottmann, Leon. 1980. Part V
of the Share...Care health
series, this publication
contains questionnaires
regarding all areas of the
member's lifestyle. Once
completed, the information is
used in obtaining a Lifestyle
Assessment printout from the
AGNET computer. 18 p. : ill.
Document available from: 4-H &
Youth Development, 114
Agricultural Hall, University
of Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Member; Junior
and Senior High level.
Learning Experience:
Knowledge, skills, practices;
Family; Decision making;
Social; Personal growth;
Citizenship and community.

983

Lifetime sports-archery.

Noe, Mrs. Keith. Brayman, Mrs.
Rebecca. Shay, Ms. Susan.
1979. Activities included in
this project are proper
shooting and care of the bow,
proper stance, and archery
safety. Proper arrow length,
and target types are also
discussed in this guide. 15 p.
: ill. Document available
from: 4-H Youth & Development,
114 Agricultural Hall,
University of
Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Member, Junior
and Senior High Levels.
Leader's guide available.
Learning experience:
Knowledge, skills, practices.
Family. Social. Personal
growth.

984

Lifetime sports-bowling.

Noe, Keith. Brayman, Rebecca. Shay, Susan. 1979. The beginning bowler is taught stance, scoring and bowling etiquette in this guide. Terminology and equipment requirements are also discussed. . Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln Nebraska 68583. Publication intended for: Member, Junior and Senior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Family. Social. Personal growth.

985

Lifetime sports-golf.

Noe, Keith. Brayman, Rebecca. Shay, Susan. 1979. Golf equipment, swings, and stances are all covered in this publication. Beginning golfers will be supplied with information allowing them to progress through different levels of proficiency in the sport. 23 p. . ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Family. Social. Personal growth.

986

Lifetime sports, leader's guide.

Noe, Keith. Brayman, Rebecca. Shay, Susan. 1979. This guide gives the leader information on additional guide sources, as well as giving information on the physical development of different age groups. This information, coupled with nutritional information, will help the leader educate members on what to expect from themselves as they begin sports activities. 34 p. . ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Leader. Learning experience: Knowledge, skills, practices. Decision making. Personal growth. Family. Social.

987

Lifetime sports-tennis.

Noe, Keith. Brayman, Rebecca. Shay, Susan. 1979. Volleys, tennis etiquette, and grips are defined in this guide. Some discussion of strategy is

also included in the discussion in the manual. 19 p. . ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Family. Social. Personal growth.

988

Livestock judging guide.

Gilster, Keith E. 1981. This publication is designed to make livestock judging useful and enjoyable. Members are instructed in judging beef cattle, swine, sheep, carcass evaluation and in taking notes and giving oral reasons. This is a for sale only item. 60 p. . ill. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving.

989

Looking back-the history of your community.

Siffring, Donald D. 1979. This publication encourages the member to develop an interest in the past of the community they live in. Activities include learning about the early settlers in the community and investigating the history of their town. 10 p. . ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member, Junior and Senior High Level.

990

Managing the money maze.

Nebraska Cooperative Extension Service. 1978. Activities included in this manual are: a trip to a savings and loan office and filling out tally sheets for personal expenses. Questions in the manual are aimed at teaching the member to analyze personal spending habits, and at teaching better money choice habits. [16] p. . ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member, Junior

and Senior High Level.
Leader's guide available.
Learning Experience:
Knowledge, skills, practices;
Family; Decision making;
Social; Careers, earning and
saving; Personal growth;
Citizenship and community.

991

**Managing the money maze :.
leader's guide--Unit 2.**
Nebraska Cooperative Extension
Service. 1980. Ideas for
leaders presenting topics to
members are given in this
guide. Activity objectives and
planning suggestions are
included. [30] p. Document
available from: 4-H & Youth
Development, 114 Agricultural
Hall, University of
Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Leader. Learning
Experience: Knowledge, skills,
practices; Family; Decision
making; Social; Careers,
earning and saving; Personal
growth.

992

**Managing the money maze :.
Leader's guide, Unit 3.**
Nebraska Cooperative Extension
Service. 1980. This
publication includes activity
objectives, examples of
financial learning
experiences, and ideas for
illustrated talks,
demonstrations and exhibits
which the leader may suggest.
[9] p. : ill. Document
available from: 4-H & Youth
Development, 114 Agricultural
Hall, University of
Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Leader; Junior
and Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Family; Decision making;
Social; Careers, earning and
saving; Personal growth;
Citizenship and community.

993

**Managing the money maze :.
Unit 2.**
Nebraska Cooperative Extension
Service. 1980. Activities in
this publication are designed
to help members learn how to
handle their money resources.
Topics included are checking
and savings accounts, planning
a budget and teen employment
opportunities. [27] p. : ill.
Document available from: 4-H &
Youth Development, 114
Agricultural Hall, University
of Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Member; Junior
and Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Family; Decision making;
Social; Careers, earning and

saving; Personal growth.

994

**Managing the money maze :.
Unit 3.**
Nebraska Cooperative Extension
Service. 1980. From activities
in this publication, members
will learn about the costs of
owning and operating a car,
making purchases on credit,
ways of financing college, and
the responsibilities of being
financially independent. [30]
p. Document available from:
4-H & Youth Development, 114
Agricultural Hall, University
of Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Member; Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Family; Decision
making; Social; Careers,
earning and saving; Personal
growth; Citizenship and
community.

995

**Managing the money maze,
leader's guide.**
Nebraska Cooperative Extension
Service. 1978. A game,
discussion questions, and
other activities for planning
meetings are included in this
guide. Additional sources of
information are also listed.
[16] p. Document available
from: 4-H Youth & Development,
114 Agricultural Hall,
University of
Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for Leader. Learning
Experience: Knowledge, skills,
practices; Family; Decision
making; Social; Careers,
earning and saving; Personal
growth; Citizenship and
community.

996

Market pigs & breeding gilts.
Williams, Dave. 1978. This
guide includes descriptions
for utility through U.S. No. 1
grade feeder pigs and
slaughter barrows. Also
included are feeding programs
for market and finishing pigs.
7 p. : ill. Document
available from: 4-H Youth &
Development, 114 Agricultural
Hall, University of
Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Member and
Junior High Level. Learning
experience: Knowledge, skills,
practices. Decision making.
Careers, earning and saving.

997

**Nebraska 4-H horse show and
judging guide.**
Warren, R. B. 1976. This guide
gives details on the

organization of a horse show, as well as points for participants. Equipment usage and imitations, as well as showmanship considerations, are also included. 56 p. : . ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. ; Social. ; Personal growth.

998

Outdoor cooking.

Diedrichsen, Ethel. 1980. Ideas for cooking using a variety of outdoor methods are discussed in this manual. Recipes are included along with instructions for preparing the food and safety precautions necessary when cooking outdoors. 19 p. : . ill. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Careers, earning and saving; Personal growth.

999

Plant a tree.

Range, Joe. Orr, John D. 1980. With this publication, members will be given the opportunity to collect seeds from trees and to plant their own trees from seedlings. Instructions for care of trees are given, along with criteria for judging tree exhibits and possible career opportunities. 11 p. : . ill. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving.

1000

Project concern.

Rottman, Leon H. 1976. The main activity in this publication is contact with senior citizens and development of a relationship. A visiting program, the "odd-jobbers corps", and other activities are suggested to cement relationships. 15 p. : . ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln,

Nebraska 68583. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Family. Leadership skills. Social. Personal growth. Citizenship and community.

1001

Project concern-teens adopt a grandparent.

Rottman, Leon H. 1976. This publication is a companion guide to Project Concern, EC #21-10-76. It gives more detailed information on possible programs and plans members participating in the project can make. 3 p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Leadership skills. Social. Personal growth. Citizenship and community.

1002

Rabbit raising.

Holder, David. Gleaves, Earl W. 1972. Rabbit raising is discussed in this manual from the aspects of breeding, feeding, and weaning. Instructions are also included for the construction of a hutch and for a nest box for does. 8 p. : . ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skill, practices. Decision making. Careers, earning and saving.

1003

Range judging handbook for Nebraska.

Nichols, James T. Jensen, Peter H. Stubbendieck, J. 1978. This publication gives information on range judging, in addition to giving clarification of different land site types, and identification of grasses and vegetation types. 31 p. : . ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member and Senior High Level. Learning experience: Knowledge, skills, practices. Leadership skills. Decision making. Careers, earning and saving.

1004**Rope and its uses.**

Goodding, Richard D. 1979. Rope splicing, as well as knot tying, is included in this manual. Working strengths as compared to breaking strengths are also discussed here. 14, [2] p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

1005**Selecting and exhibiting vegetables for the fair.**

Hoadley, Dr. Brent. Neild, Dr. Ralph. Nuland, Dave. 1977. This guide to exhibition covers proper selection, storage, and showmanship. Considerations for a wide range of vegetables are given. 10 p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Family. Leadership skills. Decision making. Social. Personal growth.

1006**Soil and water conservation.**

Gilman, Harold H. Weiss, Russell E. 1978. The origins of soil and its formation are two of the topics covered in this guide. Activities include exercises designed to demonstrate the effects of incorrect soil management, as well as natural processes of soil breakdown. 26 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Careers, earning and saving.

1007**Studying your community's progress.**

Moon, Leon A. 1979. A photographic story illustrating good or bad points in the community is one of the ways members can study community progress. Activities in this booklet give the member ideas to help them realize strong or weak points in community development. 7 p. : ill. Document available from: 4-H Youth & Development,

114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Leadership skills; Decision making; Social; Careers, earning and saving; Personal growth; Citizenship and community.

1008**Studying your community's progress-your photographic record.**

Moon, Leon A. 1979. 4-H photographers will gather information about community progress in three areas in this project. Human Services, Community Facilities, Environmental Improvements and Economic Development will be studied. 15 p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member, Senior High Level. Learning Experience: Knowledge, skills, practices; Leadership skills; Decision making; Social; Personal growth; Citizenship and community.

1009**Tractor driving courses.**

Goodding, Richard D., III. 1977. Rules for competition in the state tractor operator's contest are given in this manual. Information on scoring, and the arrangement of tractor courses is also given. 11 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

1010**Tractor operation and safety manual.**

Goodding, Richard D., III. 1978. A basic orientation to safety is given in this guide, as well as an orientation to the instrument panel, and daily maintenance of a tractor. 45 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1011

Tree and shrub identification.
Loerch, Karl. 1978. Activities in this publication include building a plant press, collection of specimens, and the formation of a display book. Information on possible demonstrations and tours is also included. 7 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

1012

You--a competent teen consumer.
Wilson, Janet. 1976. This guide reveals to the teen consumer questions enabling him or her to make wise consumer choices. It's problem solving approach deals with realization of personal resources, such as time, when deciding whether to buy or make an item. 7 p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Family. Decision making. Careers, earning and saving. Personal growth. Citizenship and community.

1013

You are what you drink.
Rottmann, Leon H. 1980. This publication is intended to give members and/or leaders information on the physical and mental malfunctions related to alcohol consumption, guidelines for dealing with the alcoholic, and suggestions for further study of alcoholism. A listing of available films and pamphlets is provided. 11 p. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member; Leader; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth; Citizenship and community.

1014

Your club community-healthy, or hoping for better days?.
Gessaman, Paul H. 1979. This guide enables club members to examine the role of their

group in the light of its accomplishments; and allows them to accurately consider growth and future activities in the light of their findings. 15 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Leadership skills; Decision making; Social; Personal growth; Citizenship and community.

1015

Your community--the year that was.
Siffring, Donald D. Gessaman, Paul H. 1979. This publication is intended to guide members in gathering information on a topic of importance to their community. Members will make a poster display using facts obtained from newspaper clippings and interviews. 11 p. : ill. Document available from: 4-H & Youth Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Leadership skills; Decision making; Social; Citizenship and community.

1016

Your community-parts and functions.
Gessaman, Paul H. 1979. Activities in this manual include examining the structure of the community around us, and determining the functions of the different parts of it. Economic activity and the role of churches in the community are two of the topics which will be studied. 14 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Social; Citizenship and community.

1017

Your dairy goat.
Nebraska Cooperative Extension Service. 1979. Weaning, feeding, and care of a dairy goat is discussed in this publication. Additional sections include prevention of diseases and elimination of

parasitic infestations. 18 p.
: ill. Document available
from: 4-H Youth & Development,
114 Agricultural Hall,
University of
Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Member,
Elementary, Junior and Senior
High Levels. Learning
experience: Knowledge, skills,
practices. Decision making.
Careers, earning and saving.

1018

I run for office.
Moon, Leon A. 1979. Nomination
procedures for club officers,
and the jobs of each office,
are outlined in this guide. A
sample petition is also
included. This publication can
serve as a guide to a 4-H
group's organizational
structure. 4 p. Document
available from: 4-H Youth &
Development, 114 Agricultural
Hall, University of
Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Member, Junior
and Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Leadership skills; Decision
making; Social; Personal
growth; Citizenship and
community.

1019

4-H beef manual.
Williams, Dave. 1979. This
guide provides information on
the purchase, feeding, and
training of calves. Calf
grooming is also included in
the manual. 23 p. : ill.
Document available from: 4-H
Youth & Development, 114
Agricultural Hall, University
of Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Member, Junior
and Senior High Levels.
Learning experience:
Knowledge, skills, practices.
Decision making. Careers,
earning and saving.

1020

4-H corn project.
Gilman, Harold H. 1978. This
guide includes the essential
elements in corn production.
Soil tillage, proper seed
selection, and harvesting,
selling and storing corn are
all covered. 31 p. : ill.
Document available from: 4-H
Youth & Development, 114
Agricultural Hall, University
of Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Member, Junior
and Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making; Careers,
earning and saving; Personal
growth.

1021

4-H council guidelines.
Caldwell, William E. Skucius,
Elaine. Schmidt, Kenneth.
1979. The structure and
organization of the 4-H
Council, and its relationship
to local groups, is outlined
in this publication.
Formulation of objectives, and
guidelines for expansion and
review are also included in
these guidelines. 15 p.
Document available from: 4-H
Youth & Development, 114
Agricultural Hall, University
of Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Staff. Learning
experience: Knowledge, skills,
practices. Leadership skills.
Decision making. Social.
Personal growth. Citizenship
and community.

1022

4-H dairy.
Cole, Philip H. 1978. The
exhibition of a dairy calf and
all the steps leading up to
showing are explained in this
manual. Selection of a calf,
as well as feeding and
grooming, are topics in this
guide. 55 p. : ill. Document
available from: 4-H Youth &
Development, 114 Agricultural
Hall, University of
Nebraska-Lincoln, Lincoln,
Nebraska 68583. Publication
intended for: Member, Junior
and Senior High Levels.
Learning experience:
Knowledge, skills, practices.
Decision making. Careers,
earning and saving.

1023

4-H leadership manual.
Crow, Linda. 1975. A
leadership project manual for
4-H members to design their
own leadership program.
Suggests a plan and ideas for
developing leadership
abilities and skills. 7 p. :
ill. Document available from:
North Dakota 4-H Office, 116
Morrill Hall, North Dakota
State University, Fargo, North
Dakota 58105. Publication
intended for: Member, Junior
and Senior High Levels.
Learning experience:
Knowledge, skills, practices.
Decision making. Personal
growth. Citizenship and
community.

1024

4-H safety in the home.
Schneider, Rollin. 1980.
Safety checklists are some of
the activities included in
this booklet. Members will
define and correct safety
hazards in different areas of
their home and yard. 14 p. :
ill. Document available from:
4-H Youth & Development, 114
Agricultural Hall, University

of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Family. ; Leadership skills. ; Decision making. ; Social. ; Personal growth. ; Citizenship and community.

1025

4-H sheep manual.

Williams, Dave. 1977. This publication gives the prospective shepherd information on sheep breeds, as well as on feeding and care of sheep. A recordkeeping section, as well as one on training and showing lambs, are also included. 41 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving.

1026

4-H swine manual.

Williams, Dave. 1979. Swine feeding, as well as selection of pigs with which to start a herd, are covered in this manual. Information on different breeds and on finishing diets is also given. 19 p. : ill. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. ; Careers, earning and saving.

1027

4-H volunteers in program service.

Caldwell, William E. Skucius, Elaine. Schmidt, Kenneth. 1979. The role of the volunteer in developing program resources is explained in this manual. Relationships with other groups and cooperation with 4-H Organizations are also in this guide. 15 p. Document available from: 4-H Youth & Development, 114 Agricultural Hall, University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Publication intended for: Staff. Learning experience: Knowledge, skills, practices. Leadership skills. Decision making. Social. Personal growth. Citizenship and community.

NEW HAMPSHIRE

1028

Bicycle safety curriculum guide.

Sargent, Dennis. This guide is designed for elementary teachers and 4-H leaders to assist young people in the fundamentals of bicycle care, maintenance, and safety. It includes lesson plans on six topics. 23 p. : ill. Not part of a sequence. Publication suitable for: General. Leader material. Publication intended for adult level.

NEW JERSEY

1029

After graduation, what next? leader's guide, decisions.

Trasferini, Janet. 1978. This guide for leaders provides an introduction, objectives, and instructions for activities to help young people make appropriate decisions following graduation from high school. Cook College, Rutgers University, Administration Building, P.O. 231, New Brunswick, NJ 08903,. 9 p. : ill. Is part of a sequence. Publication suitable for: General. Leader material. Publication intended for adult level.

1030

After graduation, what next? Level I, decisions.

Trasferini, Janet. 1978. This introductory guide in a series of five units is designed to help high school youth consider interests and abilities while making plans for future occupations and life decisions. Cook College, Rutgers University, Agricultural Administration Building, P.O. 231, New Brunswick, NJ 08903,. 33 p. part of a sequence. Publication suitable for: General. Member material. Publication intended for senior high level.

1031

After graduation, what next? Level II, job.

Trasferini, Janet. 1978. This is the third in a series of five units designed to help high school youth understand some of the factors involved in considering, locating, and keeping a job. Cook College, Rutgers University, Administration Building, P.O. 231, New Brunswick, NJ 08903,. 13 p. Part of a sequence. Publication suitable for: General. Member material. Publication intended for senior high level.

1032

**After graduation, what next?
level II, marriage.**

Trasferini, Janet. 1978. This is the fourth in a series of five units designed to help high school youth approach, objectively, the possibility of marriage. Cook College, Rutgers University, Administration Building, P.O. 231, New Brunswick, NJ 08903. 24 p. : ill. Is part of a sequence. Publication suitable for: General. Member material. Publication intended for senior high level.

1033

**After graduation, what next?
Level II, school and college.**

Trasferini, Janet. 1978. This is the second in a series of five units designed to help high school students evaluate educational opportunities and develop skills in making appropriate decisions. Cook College, Rutgers University, Administration Building, P.O. 231, New Brunswick, NJ 08903. 20 p. Part of a sequence. Publication suitable for: General. Member material. Publication intended for senior high level.

1034

**After graduation, what next?
Level III, managing on your own.**

Trasferini, Janet. 1978. This is the last in a series of five units designed to help high school youths adapt to living apart from members of the immediate nuclear family. Cook College, Rutgers University, Administration Building, P.O. 231, New Brunswick, NJ 08903. 20 p. : ill. Part of a sequence. Publication suitable for: General. Member material. Publication intended for senior high level.

1035

[Brochure to promote 4-H in urban areas].

Wilson, Barry. 1971. This booklet presents 4-H opportunities to young people in urban areas in pictorial, multicolor, format with limited narrative content. [6] p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Member, Elementary and Junior High Levels. Learning experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth; Citizenship and community.

1036

Brooding and rearing baby chicks.

Talmdage, Daniel W. 1979. This project book covers essential factors to consider in raising chicks in small home, or large income-producing flocks. 11 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Member; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; Personal growth.

1037

Caring for young children in the home.

Birckmayer, Jennifer R. 1978. This is the last unit in a sequence of four child care guides for 4-H and other youth leaders. It provides activities for preadolescents to learn and share with preschoolers. 32 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P. O. 231, New Brunswick, New Jersey 08903. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1038

Clothopoly.

Minifie, Florence G. 1974. This is a textiles and clothing record for younger 4-H members designed around the concept of "Monopoly". [1] p. : ill. Document available from: Publications Distribution Center, Cook College, P. O. 231, New Brunswick, New Jersey 08903. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1039

**Creative career exploration :
4-H teens' guidebook.**

Reed, Eunice P. Abedon, David. Heinsohn, Anne. Uhlinger, Susan. 1979. This manual is designed to help late adolescents become aware of opportunities and understand the principles involved in making wise career decisions. 32 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903.

Publication intended for:
Member; Senior High Level.
Leader's guide available.
Learning Experience:
Knowledge, skills, practices;
Family; Decision making;
Careers, earning and saving;
Personal growth; Citizenship
and community.

1040

**Design a project :. 4-H
textiles & clothing program.**
Strassburg, Kathleen R. 1976.
This is the third unit in a
sequence of 4-H textiles and
clothing projects. It features
a self-determined approach to
learning and contains
information for both leaders
and members. 6 p. :. ill.
Document available from:
Northeast Extension
Publications, Distribution
Center, Cook College, P. O.
231, New Brunswick, New Jersey
08903. Publication intended
for: Member; Leader; Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Family; Decision
making. ; Careers, earning and
saving; Personal growth.

1041

Environmental Awareness.
Kelley, John W. Bingham,
William H. Breiding, George H.
Curtis, Otis F. Edgerton,
James A. Fazio, James R. 1975.
This guide for 4-H and other
youth leaders encompasses the
discovery approach to five
different types of
environment. References and a
glossary are included. 72 p.
:. ill. Document available
from: Northeast Extension
Publications, Distribution
Center, Cook College, P.O.
231, New Brunswick, New Jersey
08903. Publication intended
for: Leader. Learning
experience: Knowledge, skills,
practices; Decision making;
Careers, earning and saving;
Personal growth; Citizenship
and community.

1042

Focus on health.
Macaulay, Elizabeth A. 1976.
This is a packet containing an
overall guide for 4-H leaders
and leaflets on 17 physical,
mental and environmental
health activities. [48] p. :.
ill. Document available from:
Northeast Extension
Publications, Distribution
Center, Cook College, P. O.
231, New Brunswick, New Jersey
08903. Publication intended
for: Leader. Learning
Experience: Knowledge, skills,
practices; Family; Decision
making; Careers, earning and
saving; Personal growth;
Citizenship and community.

1043

**From egg to chick :. a 4-H
manual of embryology and
incubation.**
Kingsbury, Frank W. 1974. This
manual designed primarily for
teachers and 4-H leaders, has
background information and
technical information on
incubating eggs and hatching
baby chicks. Sources of
materials and audiovisual aids
are included. Cook College,
Rutgers University,
Administration Building, P.O.
Box 231, Brunswick, N.J.
08903. 33 p. :. ill. Not part
of a sequence. Publication
suitable for: General. Leader
material. Publication intended
for adult level.

1044

Fun to grow on.
Nuttall, Paul E. Birckmayer,
Jennifer. Finch, Mary Ann.
Herde, Mary Jo. Schumacher,
Warren. 1978. This is the
introductory unit in a
sequence of four child care
guides for 4-H and other youth
leaders. It provides
activities for preadolescents
to learn and share with
preschoolers. 16 p. :. ill.
Document available from:
Northeast Extension
Publications, Distribution
Center, Cook College, P.O.
231, New Brunswick, New Jersey
08903. Publication intended
for: Leader. Learning
experience: Knowledge, skills,
practices; Family; Decision
making; Social; Personal
growth.

1045

**Guide for leaders :. 4-H is
...**
Peck, Rhoda. Gribouski, G.
Joseph. Smith, Russell. Stout,
Phyllis. Winters, Rollyn.
1979. This is one of five
guides for 4-H leaders
designed to help them
understand the scope and
structure of the program. [4]
p. Document available from:
Northeast Extension
Publications, Distribution
Center, Cook College, P.O.
231, New Brunswick, New Jersey
08903. Publication intended
for: Leader. Learning
Experience: Knowledge, skills,
practices; Family.

1046

Let me do it.
Burrows, Carmen P.
Burns-Wolfe, Marty. Jodoin,
Virginia. 1979. This
management/consumer education
packet includes a guide for
adult leaders and 18 activity
sheets for preadolescents and
early teens. 38 p. :. ill.
Document available from:
Northeast Extension
Publications, Distribution

Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Member Material; Leader Material; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth; Citizenship and community.

1047

Playing for real. Akamatsu, Muriel. Kuennen, Daniel. Merriam, Winthrop. Reyburn, Jerry. Rutledge, Lloyd. 1977. This community resource development guide for 4-H leaders contains 21 games and simulations to help young people experience decision-making processes. 52 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Leader. Learning experience: Knowledge, skills, practices; Decision making; Social; Personal growth; Citizenship and community.

1048

Understanding children through play.

Finch, Mary Ann. Birckmayer Jennifer. Herde, Mary Jo. Nuttall, Paul E. Schumacher, Warren. 1976. This is the third unit in a sequence of four child care guides for 4-H and other youth leaders. It provides activities for preadolescents to learn and share with preschoolers. 50 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Leader. Learning experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1049

What are children like? Schumacher, Warren P. Birckmayer, Jennifer. Finch, Mary Ann. Herde, Mary Jo. Nuttall, Paul E. 1978. This is the second unit in a sequence of four child care guides for 4-H and other youth leaders. It provides activities for preadolescents to learn and share with preschoolers. 48 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Leader. Learning experience: Knowledge, skills, practices; Family; Decision

making; Social; Personal growth.

1050

Your 4-H beef program - unit 2. Burdette, Lester A. Brace, Marlin. Brannon, Warren. Colby, Byron. Emch, Joseph. Kiable, Robert. Malkus, Louis. 1974. This is the second unit of a series of two 4-H projects on beef production. Breeding, feeding, managing, and marketing are emphasized. 20 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P. O. 231, New Brunswick, New Jersey 08903. Publication intended for: Leader, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; personal growth.

1051

Your 4-H beef program, unit 1. Burdette, Lester. 1979. This manual (for beginning 4-H members) highlights owning, feeding, and fitting one or more steers or heifers; learning breeds, and parts of an animal. Recordkeeping is included. Cook College, Rutgers University, Administration Building, P.O. 231, New Brunswick, NJ 08903,. 21 p. : ill. Is part of a sequence. Publication suitable for: General. Member material. Publication intended for elementary level.

1052

4-H Forestry handbook - part I. Foulds, Raymond T. Jr. Sloan, Roger P. 1977. This is the introductory unit in a sequence of two 4-H forestry projects. It covers basic information on trees and cultural practices. 28 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Member, Elementary, Junior High Levels. Learning experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

1053

4-H forestry handbook - part II. Foulds, Raymond T. Jr. Sloan, Roger P. 1977. This is the second unit in a sequence of two 4-H forestry projects.

Topics include: improvement, harvesting, logging, marketing, and milling. 24 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; Personal growth; Citizenship and community.

1054

4-H forestry leaders' guide. Poulds, Raymond T. Jr. Sloan, Roger P. 1977. This leader's guide accompanies two 4-H forestry units designed to reach members and other youth, ages 9 to 19 years. It provides objectives and aids for conducting meetings. 12 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Leader. Learning experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; Personal growth; Citizenship and community.

1055

4-H guide for leaders :. boys, girls and youth programs. Winters, Rollyn P. Gribouski, G. Joseph. Peck, Rhoda. Smith, Russell. Stout, Phyllis. 1980. This is one in a series of five guides for 4-H leaders to assist them in relating to young people, ages 3 to 19 years. Development needs and interests are included. 5 p. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Leader. Learning experience: Knowledge, skills, practices; Decision making; Personal growth.

1056

4-H guide for leaders :. helping youth learn. Stout, Phyllis E. Gribouski, G. Joseph. Peck, Rhoda Smith, Russell. Winters, Rollyn. 1980. This is one in a series of five guides for 4-H leaders to help them understand educational principles and how to relate them to 4-H learning experiences. [4] p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended

for: Leader. Learning experience: Knowledge, skills, practices; Decision making; Personal growth.

1057

4-H guide for leaders :. making the most of meetings. Gribouski, G. Joseph. Peck, Rhoda. Smith, Russell. Stout, Phyllis. Winters, Rollyn. 1980. This is one in a series of five guides for 4-H leaders to help them plan and conduct effective and interesting educational meetings for 4-H members. [4] p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Leader. Learning experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth; Citizenship and community.

1058

4-H guide for leaders :. planning a program. Smith, Russell W. Gribouski, G. Joseph. Peck, Rhoda. Stout, Phyllis. Winters, Rollyn. 1979. This is one in a series of five guides for 4-H leaders covering the steps involved in planning educational programs with young people. [4] p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Leader. Learning experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth; Citizenship and community.

1059

4-H guide for leaders :. suggestions for county extension staff. Stout, Phyllis E. Gribouski, G. Joseph. Peck, Rhoda. Smith, Russell. Winters, Rollyn. 1979. This leaflet accompanies five guides for 4-H leaders and provides professional staff with suggestions for adapting the units to specific county situations. [4] p. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Staff. Learning experience: Knowledge, skills, practices; Decision making; Personal growth.

1060

4-H horse judging guide.

Gallagher, James P. 1980. This guide is designed for 4-H members and other youth interested in learning about and evaluating horses. 19 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P. O. 231, New Brunswick, New Jersey 08903. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Decision making; Personal growth.

1061

4-H plan and plant - exploring urban plant life - leader's guide.

Fordham, Herbert C. Fortney, Robert. Lacey, Donald B. Rouse, Wesley. Schaufler, Ernest L. 1979. This is one in a series of 19 horticultural guides for 4-H leaders with emphasis on plant science activities in cities and suburban areas. Identification, seed germination, and growth factors appear in several learning activities. 23 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Leader; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth; Citizenship and community.

1062

4-H plan and plant - flower arranging, corsage, and holiday decorations - leaders' guide.

Schaufler, Ernest F. Fordham, Herbert. Fortney, W. Robert. Lacey, Donald. Rouse, Wesley. 1980. This is one in a series of 19 horticultural guides for 4-H leaders with information on fresh and dry flowers, a color harmony indicator, corsages, and different kinds of holiday decorations. Three lesson plans are included. 31 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Leader; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth.

1063

4-H plan and plant - flower gardening - leaders' guide.

Lacey, Donald B. Fordham, Herbert. Fortney, W. Robert. Rouse, Wesley. Schaufler, Ernest. 1977. This is one in a series of 19 horticultural guides for 4-H leaders with suggestions for growing outdoor flowers. Varieties and cultural practices are covered in five lessons. 19 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Leader; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth.

1064

4-H plan and plant - portable gardens - leader's guide.

Lacey, Donald B. Fordham, Herbert C. Fortney, Robert. Rouse, Wesley P. Schaufler, Ernest F. 1976. This is one in a series of 19 horticultural guides for 4-H leaders including tips for growing indoor and outdoor plants in movable containers. Different types of planters appear in two lesson plans. 8 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Leader; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth; Citizenship and community.

1065

4-H plan and plant - trees nature's gift of green - leaders guide.

Daniels, Roland R. Fordham, Herbert. Fortney, W. Robert. Lacey, Donald. Schaufler, Ernest. 1979. This is one in a series of 19 horticultural guides for 4-H leaders with special emphasis on growing, identifying, planting, and using trees. Seven activities (lesson plans) provide outlines for educational meetings. 15 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Leader; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth; Citizenship and community.

1066

4-H plan and plant - turfgrasses - leader's guide.

Harper, John C. Fordham, Herbert. Fortney, W. Robert. Lacey, Donald. Rouse, Wesley. Schaufler, Ernest. 1980. This is one in a series of 19 horticultural guides for 4-H leaders with information on grass for home lawns and other turf areas. Lesson plans cover turf improvement, renovation, and establishing a new lawn. 7 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Leader; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth.

1067

4-H plan and plant - unit IV - growing perennials from seed and arranging the flower border.

Harrison, Malcolm R. 1980. This is one in a series of four outdoor gardening units for 4-H members and other youth. It covers starting perennials from seed and using them in a garden. [6] p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Member; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth.

1068

4-H plan and plant - wild flowers - leaders guide.

Lacey, Donald B. Fordham, Herbert. Fortney, W. Robert. Rouse, Wesley. Schaufler, Ernest. 1979. This is one in a series of 19 horticultural guides for 4-H leaders with information and illustrations on more than 50 wild flowers. Lesson plans cover identification and gardening. 23 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Leader; Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth; Citizenship and community.

1069

4-H plan and plant for beauty - unit I - growing annual flowers.

Lacey, Donald B. 1980. This is one in a series of four

outdoor gardening guides for 4-H members and other youth. Principles are included for selecting and growing flowers outside. [4] p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Member; Elementary, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth.

1070

4-H plan and plant for beauty - unit I - house plants.

Rathmell, James K. Jr. 1980. This is one in a sequence of four indoor gardening projects designed for 4-H members and other youth. It covers the selection, culture and care of house plants. 7 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Member; Elementary, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth.

1071

4-H plan and plant for beauty - unit II - combining annuals and perennials.

Lacey, Donald B. 1979. This is one in a series of four outdoor gardening guides for 4-H members and other youth. Information is presented on methods of combining different species in flower bed arrangements. [4] p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Member; Elementary, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth; Citizenship and community.

1072

4-H plan and plant for beauty - unit II - indoor bulbs, dish gardens, & terrariums.

Stevens, Robert F. Gianfagna, Alfred J. 1980. This is one in a series of four indoor gardening units designed for members and other youth. Planting bulbs, preparing dish gardens, and designing

terrariums are emphasized. 11 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Member; Elementary, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth.

1073

4-H plan and plant for beauty - unit III - flower arrangement.
Lockwood, Melville. 1980. This is one in a series of four indoor gardening projects for 4-H members and other youth. It highlights types of flower arrangements, principles, and steps. [7] p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Member; Elementary, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth.

1074

4-H plan and plant for beauty - unit III - starting annuals indoors and dividing perennials.
Lacey, Donald B. 1980. This is one in a series of four outdoor gardening units for 4-H members and other youth. It covers practices involved in starting plants indoors for later use in outdoor locations. [6] p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Member; Elementary, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth.

1075

4-H plan and plant for beauty - unit IV - corsages, winter bouquets, and Christmas greens.
Stevens, Robert F. Schaufler, Ernest. 1980. This is one in a series of four indoor gardening units for 4-H members and other youth. Instructions are included for corsages, bouquets, and holiday decorations. 7 p. : ill. Document available from: Northeast Cooperative

Extension Publications, Distribution Center, Cook College, P.O. 231, New Brunswick, New Jersey 08903. Publication intended for: Member; Elementary, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1076

4-H presents.
Kirkland, Max D. Folwell, William H. 1971. This manual covers purposes, objectives, and instructions for planning and giving public presentations. 31 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P. O. 231, New Brunswick, New Jersey 08903. Publication intended for: Member; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth; Citizenship and community.

1077

4-H rabbit production.
Jordan, Herbert C. Hartman, Dennis A. Kingsbury, Frank W. 1978. This is a consolidated version of several state 4-H projects including seven lessons on major steps involved in raising rabbits. 27 p. : ill. Document available from: Northeast Extension Publications, Distribution Center, Cook College, P. O. 231, New Brunswick, New Jersey 08903. Publication intended for: Member; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; Personal growth.

NEW YORK

1078

Creative career exploration : leaders' guidebook.
Reed, Eunice P. 1976. This guidebook, for adult volunteer leaders, suggests ways of helping late adolescents take systematic steps in planning their futures. 28 p. : ill. Document available from: Distribution Center, 7 Research Park, Cornell University, Ithaca, NY 14850. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth; Citizenship and community.

1079

Creative career exploration - program director's guidebook.
Reed, Eunice P. Abedon, David. Heinsohn, Anne. Uhlinger, Susan. 1976. This guidebook provides information for professionals involved in counseling adult volunteers who are working with late adolescents on career education. 25 p. : ill. Document available from: Distribution Center, 7 Research Park, Cornell University, Ithaca, New York 14850. Publication intended for: Staff. Learning experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth; Citizenship and community.

1080

District leaders.
Sterling, John C. 1971. This booklet outlines ways for adult 4-H volunteers to serve youth and other leaders beyond their own communities. 11 p. : ill. Document available from: 4-H Youth Development Office, 109 East Roberts Hall, Cornell University, Ithaca, New York 14853. Publication intended for: Leader. Learning experience: Knowledge, skills, practices; Decision making; Social; Citizenship and community.

1081

Let's explore.
Dvorak, Charles F. 1973. This guide outlines the philosophy of exploratory projects for 4-H members and other youth and includes suggestions for meetings on nine select topics. 39 p. Document available from: Distribution Center, 7 Research Park, Cornell University, New York 14850. Publication intended for: Leader. Learning experience: Knowledge, skills, practices; Decision making; Social; Personal growth.

1082

Let's explore birds.
Schano, Edward A. Dvorak, Charles F. 1973. This is the sixth unit in a sequence of nine leaflets to help young 4-H members and other youth explore agricultural and home economics topics. 4 p. : ill. Document available from: Distribution Center, 7 Research Park, Cornell University, Ithaca, New York 14850. Publication intended for: Member, Elementary Level. Learning experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1083

Let's explore food.
Dunn, Mildred S. Dvorak and McGurk. 1973. This is the last unit in a sequence of nine leaflets to help young 4-H members and other youth explore agricultural and home economics topics. 4 p. : ill. Document available from: Distribution Center, 7 Research Park, Cornell University, Ithaca, New York 14850. Publication intended for: Member, Elementary Level. Learning experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1084

Let's explore mammals.
Sabin, Samuel W. Dvorak, Charles F. 1973. This is the fifth unit in a sequence of nine leaflets to help young 4-H members and other youth explore agricultural and home economics topics. 4 p. : ill. Document available from: Distribution Center, 7 Research Park, Cornell University, Ithaca, New York 14850. Publication intended for: Member, Elementary Level. Learning experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1085

Let's explore plants.
Schaufler, Ernest F. Dvorak, Charles F. 1973. This is the second unit in a sequence of nine leaflets to help young 4-H members and other youth explore agricultural and home economics topics. 4 p. : ill. Document available from: Distribution Center, 7 Research Park, Cornell University, Ithaca, New York 14850. Publication intended for: Member, Elementary Level. Learning experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1086

Let's explore soil.
Krenzin, R. E. Dvorak, Charles F. 1973. This is the introductory unit in a sequence of nine leaflets to help young 4-H members and other youth explore agricultural and home economics topics. 4 p. : ill. Document available from: Distribution Center, 7 Research Park, Cornell University, Ithaca, New York 14850. Publication intended for: Member, Elementary Level. Learning experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1087

Let's explore textiles.

Focht, B. B. Dvorak, Charles F. 1973. This is the eighth unit in a sequence of nine leaflets to help young 4-H members and other youth explore select agricultural and home economics topics. 4 p. : ill. Document available from: Distribution Center, 7 Research Park, Cornell University, Ithaca, New York 14850. Publication intended for: Member, Elementary Level. Learning experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1088

Let's explore trees.

Bell, W. T. Dvorak, Charles F. 1973. This is the third unit in a sequence of nine leaflets to help young 4-H members and other youth explore agriculturally related subjects. 4 p. : ill. Document available from: Distribution Center, 7 Research Park, Cornell University, Ithaca, New York 14850. Publication intended for: Member, Elementary Level. Learning experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1089

Let's explore weather.

Krenzin, R. E. Dvorak, Charles F. 1973. This is the seventh unit in a sequence of nine leaflets to help young 4-H members and other youth explore agricultural and home economics topics. 4 p. : ill. Document available from: Distribution Center, 7 Research Park, Cornell University, Ithaca, New York 14850. Publication intended for: Member, Elementary Level. Learning experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1090

Let's explore woodworking.

Eaton, Edward O. Dvorak, Charles F. 1973. This is the fourth unit in a sequence of nine leaflets to help young 4-H members and other youth explore agricultural and home economics topics. 4 p. : ill. Document available from: Distribution Center, 7 Research Park, Cornell University, Ithaca, New York 14850. Publication intended for: Member, Elementary Level. Learning experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1091

Teens take the lead :. adult guide.

Elliott, Ellen P. Aulston, Melvin. Boyce, V. Milton. Carlson, Mary. Hilliker, S. Alden. 1976. This guide, for adult 4-H and other youth leaders, accompanies a manual for teen leaders. It suggests opportunities and ways to involve adolescents in leadership experiences. 8 p. : ill. Document available from: Distribution Center, 7 Research Park, Cornell University, Ithaca, New York 14850. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices; Decision making; Social; Personal growth; Citizenship and community.

1092

Teens take the lead :. professional guide.

Elliott, Ellen P. Aulston, Melvin. Boyce, V. Milton. Carlson, Mary. Hilliker, S. Alden. 1977. This guide, developed for professional youth workers, outlines objectives of a teen leader program and suggests ways of working with adult volunteers and young people. 12 p. : ill. Document available from: Distribution Center, 7 Research Park, Cornell University, Ithaca, New York 14850. Publication intended for: Staff. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making; Social; Personal growth; Citizenship and community.

1093

Teens take the lead :. teen guide.

Elliott, Ellen P. Aulston, Melvin. Boyce, V. Milton. Carlson, Mary. Hilliker, S. Alden. 1976. This manual is designed to assist adolescents in understanding the concepts of leadership, identify roles, and use the process approach in developing a plan. 8 p. : ill. Document available from: Distribution Center, 7 Research Park, Cornell University, Ithaca, New York 14850. Publication intended for: Leader; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth; Citizenship and community.

1094

4-H bicycle program :.

bicycling is fun on wheels.
Eaton, Edward O. 1975. This leaflet provides basic and brief information for 4-H members and other youth who

ride bicycles. [3] p. : ill.
Document available from:
Department of Agricultural
Engineering, Riley-Robb Hall,
Cornell University, Ithaca,
New York 14853. Publication
intended for: Member;
Elementary and Junior High
Level. Learning Experience:
Knowledge, skills, practices;
Family; Decision making;
Social; Personal growth;
Citizenship and community.

1095

4-H plan and plant - exploring organic gardening - leaders guide.

Schaufler, Ernest F. Fordham,
Herbert. Fortney, W. Robert.
Lacey, Donald. Rouse, Wesley.
1978. This is one in a series
of 19 horticultural guides for
4-H leaders on natural
gardening, factors to
consider, and learning
experiences. Lesson plans
include activities for
preadolescent and high
school-age youth. 7 p.
Document available from:
Distribution Center, 7
Research Park, Cornell
University, Ithaca, New York
14850. Publication intended
for: Leader; Junior and Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Family; Decision
making; Personal growth.

1096

4-H plan and plant - forcing hardy and tender bulbous materials - leaders' guide.

Schaufler, Ernest F. Fordham,
Herbert. Fortney, W. Robert.
Lacey, Donald. Rouse, Wesley.
1978. This is one in a series
of 19 horticultural guides for
4-H leaders devoted primarily
to information on forcing
bulbous materials. Lesson
plans cover potting tulips and
amaryllis bulbs. 11 p. : ill.
Document available from:
Distribution Center, 7
Research Park, Cornell
University, Ithaca, New York
14850. Publication intended
for: Leader; Junior and Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Family; Decision
making; Personal growth.

1097

4-H plan and plant - gardening with miniature plants - leader's guide.

Schaufler, Ernest F. Fordham,
Herbert. Fortney, W. Robert.
Lacey, Donald. Rouse, Wesley.
1976. This is one in a series
of 19 horticultural guides for
4-H leaders that focuses on
miniature plants. Lesson plans
include growing techniques,
annual flowers, outdoor
deciduous evergreens (shrubs),
and low-growing perennials. 15

p. : ill. Document available
from: Distribution Center, 7
Research Park, Cornell
University, Ithaca, New York
14850. Publication intended
for Leader; Junior and Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Family; Decision
making; Personal growth.

1098

4-H plan and plant - propagating outdoor plants - leader's guide.

Schaufler, Ernest F. Fordham,
Herbert. Fortney, W. Robert.
Lacey, Donald. Rouse, Wesley.
1978. This is one in a series
of 19 horticultural guides for
4-H leaders emphasizing
propagation of plants for
outside use. Lesson plans
cover constructing a heat
flat, using a head flat, and
building an outdoor
propagating box. [7] p. :
ill. Document available from:
Distribution Center, 7
Research Park, Cornell
University, Ithaca, New York
14850. Publication intended
for Leader; Junior and Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Decision making;
Personal growth.

1099

4-H plan and plant - terrariums and dish gardens - leaders' guide.

Schaufler, Ernest F. Fordham,
Herbert. Fortney, W. Robert.
Lacey, Donald. Rouse, Wesley.
1976. This is one of a series
of 19 horticultural guides for
4-H leaders on various types
of garden arrangements for
indoor plants. Lesson plans
cover terrariums and dish
gardens. 12 p. : ill.
Document available from:
Distribution Center, 7
Research Park, Cornell
University, Ithaca, New York
14850. Publication intended
for: Leader; Junior and Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Family; Decision
making; Personal growth.

NORTH DAKOTA

1100

Accessories Americana.

Bach, Annette. 1974. Home
environment project including
embroidery, applique, crochet,
quilting, smocking and
patchwork. [6] p. : ill.
Document available from: North
4-H Office, 116 Morrill Hall,
North Dakota State University,
Fargo, North Dakota 58105.
Publication intended for:
Member; Junior and Senior High
Level. Learning Experience:
Knowledge, skills, practices.

1101

The adult advisor, in the 4-H leadership project.
Crow, Linda. 1975. A guide to help leaders working with youth who are taking the leadership project. 3 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader and Senior High Levels. Learning experience: Leadership skills. Decision making. Personal growth. Citizenship and community.

1102

Advanced embroidery techniques.
Crow, Linda. 1980. Suggestions and references for advanced embroidery projects. 2 p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

1103

Animal disease :. leader's manual.
Hankel, Wayne. Schipper, I. A. 1972. This gives answers to questions asked in Unit 3 Vet Science. [9] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

1104

Arc welding project - Unit B.
Vogel, Sebastian L. 1961. Material includes horizontal, vertical and overhead welding. Also provides information on welding high carbon, spring and alloy steels. 17 p. : ill. Document intended for: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

1105

Arc welding, Unit A.
Hofman, Vernon. Vogel, Sebastian L. 1978. Manual on arc welding including language, electrodes, beads, cutting, butt & filet welds, soldering and items that can

be built. Work & quiz sheet included. 28 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary Level. Learning Experience: Knowledge, skills, practices.

1106

Backpacking foods.
Millette, Rose Anne. Soberg, Ginny. 1973. Lists types and kinds of food items best suited for backpacking. [2] p. Document available from: State 4-H Office, 116 Morrill Hall, State University Station, Fargo, ND 58105. Publication intended for: Member; Leader; Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Careers, earning and saving; Personal growth; Citizenship and community.

1107

Basic art :. a 4-H project for boys and girls.
Myhra, Mary Ann. 1973. A workbook of basic art principles to be used with "Color, Texture and Design in Space." Exercises in basic art principles. 19 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

1108

Basic drawing :. 4-H project for boys & girls.
Myhra, Mary Ann. 1973. Simple lessons or exercises in drawing. Includes shapes, shadows, perspective drawing, pencil compositions, colored pencil, charcoal, oil crayons, cartoon and matting. 18 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary, Junior, and Senior High Level. Learning Experience: Knowledge, skills, practices.

1109

Be a better baker.
Beck, Pat. 1978. Basic information on baking cakes and cookies. Recipe and project activities are included. 19 p. : ill.

Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices.

1110

Bead craft.

Shepperd, Judy. 1974. Beginning instructions for inchain beadwork. Includes instructions for daisy chain, beaded tubing and loom work. 7 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

1111

Bicycling fun and safety.

Vogel, Sebastian L. 1975. Material may be used as a safety project but includes maintenance, eight skill development activities and a bike safety quiz. Seven lessons with worksheets. 37 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary Level. Learning Experience: Knowledge, skills, practices; Social.

1112

Biscuit on a stick.

Wagner, Raymond E. 1974. An interesting way for youth to prepare biscuit dough as a variation for outdoor cookery. 1 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Family; Social; Personal growth.

1113

Buddy burner.

Wagner, Raymond E. 1974. Directions youth can use to make a simple outdoor burner from materials found around the home. [1] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary and Junior

High Level. Learning Experience: Knowledge, skills, practices; Family; Social; Personal growth.

1114

Bulbs, dish gardens and terrariums.

Bryant, Douglas. 1974. Tips on growing bulbs indoors, and making dish gardens and terrariums. Includes best plant varieties to use and instructions for care. [8] p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1115

Camp & cooking fires.

Heintz, Robert H. 1973. Discusses the art of building campfires and cooking fires. [1] p. Document available from: State 4-H Office, 116 Morrill Hall, State University Station, Fargo, ND 58105. Publication intended for: Member and Leader Material, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Decision making.

1116

Camp ecology.

Soberg, Ginny. 1973. Intended to help campers keep their camp sites clean. It gives suggestions and examples for doing this. [2] p. Document available from: State 4-H Office, 116 Morrill Hall, State University Station, Fargo, ND 58105. Publication intended for: Member; Leader; Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Personal growth; Citizenship and community.

1117

Camp style hot dog and potato soup.

Wagner, Raymond E. 1974. A simple recipe for youth to use outdoors to prepare a nutritious meal. [1] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Family; Social; Personal growth.

1118

Camping clothes.

Soberg, Ginny. 1973. Lists type of clothing best suited for camping. [2] p. Document available from: State 4-H Office, 116 Morrill Hall, State University Station, Fargo, ND 58105. Publication intended for: Member; Leader; Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Careers, earning and saving; Personal growth; Citizenship and community.

1119

Checklist for backpacking.

Soberg, Ginny. 1973. As title suggests, it lists items needed for backpacking, including clothing, first-aid, cooking equipment and miscellaneous items. 2 p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Personal growth; Citizenship and community.

1120

Choices for me?.

Anderson, Sharon. 1971. Health project dealing with decisions for teens in areas of drugs, alcohol, smoking and venereal diseases. 16 p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth.

1121

Choosing a frame backpack.

Soberg, Ginny. 1973. How to select proper fitting backpack. 1 p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth; Citizenship and community.

1122

Clothing for you.

Gulbrandson, Ruth. 1979. Beginning clothing project for 11-14 year olds. Includes use

of patterns, design principles, construction techniques, consumer ideas, caring for clothing and modeling. 52 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices.

1123

Clothing for you :. leader's guide.

Gulbrandson, Ruth. 1979. Lesson plans for basic sewing project geared for 11-14 year olds. Ten lesson ideas. [8] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader; Knowledge, skills, practices.

1124

Clover I.

Rue, Sonja. Gulbrandson, Ruth. Adams, Judi. Beck, Pat. Bach, Annette. Anderson, Sharon. 1980. An introductory project to foods, clothing and home living. Basic subject matter along with numerous activities and recipes. 68 pages in various pagings :. ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices.

1125

Clover leader's manual.

Rue, Sonja. Adams, Judi. Beck, Pat. Bach, Annette. Anderson, Sharon. 1975. Lesson plans for Clover 1 & 2, introductory 4-H personal development project. Ten lessons each for foods, clothing and home living. 24 p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices.

1126

Clover 2.

Rue, Sonja. Adams, Judi. Beck, Pat. Bach, Annette. Anderson, Sharon. 1977. Second in two-part introduction to home economics projects-basics in clothing construction, food preparation and nutrition and

home living. 56 pages in various pagings :. ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices.

1127
Collecting spider webs.
Heintz, Robert H. 1973. Details how to collect spider webs. 1 p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices.

1128
Collecting wood specimens.
Heintz, Robert H. 1973. Designed to teach the differences in wood and trees. [2] p. Document available from: State 4-H Office, 116 Morrill Hall, State University Station, Fargo, ND 58105. Publication intended for: Member; Leader; Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Careers, earning and saving.

1129
Combination unit 1 :. demonstrations.
Westra, Jack D. Lahlum, Howard K. 1970. A collection of demonstration designed to teach members how to give a demonstration. [23] p. :. ill. Document available from: State 4-H Office, 116 Morrill Hall, State University Station, Fargo, North Dakota 58105. Publication intended for : Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, Decision making; Careers, earning and saving; Personal growth.

1130
Combination unit 1 :. leader's guide.
Westra, Jack D. Lahlum, Howard K. 1970. Developed to teach members a bit about livestock, mechanics and plants. Has leaders's guide and lesson suggestions and information. 34 p. :. ill. Document available from: State 4-H Office, 116 Morrill Hall, State University Station, Fargo, North Dakota 58105. Publication intended for: Leader; Elementary and Junior

High Level. Learning Experience: Knowledge, skills, practices; Careers, earning and saving; Personal growth.

1131
Combination unit I :. member's manual.
Westra, Jack D. Lahlum, Howard K. 1970. Designed to teach members about animals, plants, mechanics, basic information. 34 p. :. ill. Document available from: State 4-H Office, 116 Morrill Hall, State University Station, Fargo, North Dakota 58105. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Careers, earning and saving; Personal growth.

1132
Common grasses & sedges in North Dakota.
Dodds, Duaine L. 1979. The manual provides a brief description and line drawings of 64 common grasses and sedges found in range and pastures in North Dakota. 41 p. :. ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1133
Conservation of natural resources.
McLellan, D. J. Moum, Richard. Schultz, Jim. 1963. To give conservation project members information in water quality, use and conservation. 28 p. :. ill. Document available from: State 4-H Office, 116 Morrill Hall, State University Station, Fargo, ND 58105. Publication intended for: Member; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Careers, earning and saving.

1134
Cooking without pans.
Wagner, Raymond E. 1974. An example of a meal that youth can prepare outdoors without the use of pots or pans. 1 p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Low income; Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Family; Social;

Personal growth.

1135

Crewel embroidery.

Crow, Linda. 1980. Basic instructions on crewel embroidery with information from the Wool Education Center. Includes project requirements, evaluation standards and references. 6 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

1136

Dairy cattle judging guide.

Edgerly, Charles G. M. 1968. To teach members how to select and judge dairy animals. 25 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Careers, earning and saving. Personal growth.

1137

Discovering 4-H.

Crow, Linda. 1978. 4-H project for the beginning 4-H member. Sections on clothing, electricity, plants, food, safety, entomology, home environment, photography, animals and health. Adapted from a project used in Florida. 39 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Personal growth.

1138

Electricity Unit C.

Gilbertson, Conrad. 1969. Unit C includes magnetism, measuring electricity, motor operation and maintenance, motor selection, motor protection and making an electric motor portable. 47 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Junior High Level. Learning Experience: Knowledge, skills, practices; Personal growth.

1139

Embroidery for enjoyment.

Crow, Linda. 1980. Helps for beginning embroidery. Includes project requirements, equipment, selection, basic stitches, evaluation standards and references. 9 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary and Junior High Levels. Learning experience: Knowledge, skills, practices.

1140

Energy conserving meals.

Beck, Pat. 1975. Steps in meal planning and preparation using energy saving techniques. Menus and recipes included. 10 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1141

Engineering science club study.

Vogel, Sebastian L. Lundstrom, Darnell R. Johnson, Dexter W. 1973. Club study material on engineering, includes lessons on rope, working with wood, bike tune-up, water quality, gasoline and RPM's with belts and pulleys. 33 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary. Learning Experience: Knowledge, skills, practices; Decision making; Social; Personal growth.

1142

Engineering science club study : leaders guide.

Vogel, Sebastian L. Lundstrom, Darnell R. Johnson, Dexter W. 1973. A package of 17 demonstrations that a leader can assign to members according to age and ability of the member. [78] p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary Level. Learning Experience: Knowledge, skills, practices; Social; Personal growth.

1143

Engineering science club study unit demonstrations -- [leaders].

Vogel, Sebastian L. Lundstrom, Darnell R. Johnson, Dexter W. 1973. Contains a wide variety of color coded subject areas for each month and teaching instructions. Includes rope, wood uses, bike tune-up, water quality and more. 1 v. [unpaged] : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1144

Entomology I.

McBride, Dean K. 1966. Material helps youth understand how insects can be beneficial and harmful to man, life cycle and aspects of control. 17 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth; Citizenship and community.

1145

Entomology II.

McBride, Dean K. 1966. This material helps youth learn to identify insects by order and how to make a collection. 34 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; Personal growth; Citizenship and community.

1146

Entomology III.

McBride, Dean K. 1967. Youth learn to recognize several more orders of insects and become more familiar with the insect key, the tool for identification. 29 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices;

Family; Decision making; Careers, earning and saving; Personal growth; Citizenship and community.

1147

Entomology IV.

McBride, Dean K. 1969. Youth are introduced to lesser known, but important, orders of insects, how to identify and where to locate them. 24 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; Personal growth; Citizenship and community.

1148

Environmental conservation check sheet for members.

Dodds, Duaine L. Mork, Irving J. Wagner, Raymond E. 1974. Check sheet for evidence of need for conservation in a community or on a farm. [2] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth; Citizenship and community.

1149

Essentials of beekeeping.

Post, Richard L. Cree, Howard R. 1976. This helps youth understand important elements in management of bees, care of hives and production of honey. 9 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level; Adult Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; Personal growth; Citizenship and community.

1150

Everybody's garden guide.

Askew, Robert G. Mills, Stephen R. 1977. A well illustrated manual on planning, location, soil, planting, thinning, weeding, varieties, feeding and harvesting of a garden. 32 p.

:. ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social.

1151

Fit for you.

Rue, Sonja. 1974. Techniques for properly fitting a garment and selecting clothes that flatter the figure. Pattern alterations. 7 p. :. ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

1152

Foil cookery.

Wagner, Raymond E. 1974. A simple one-foil pack complete dinner that youth can prepare in the outdoors. 1 p. :. ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Low income; Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Family; Social; Personal growth.

1153

Food "taste-in".

Wagner, Raymond E. 1974. A form sheet on which youth can record responses to tasting a variety of foods. [1] p. :. ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

1154

For goodness sake!.

Beader, Jean. 1969. Recipes and techniques in preparing yeast breads, shaping rolls and making nationality breads. 2 pamphlets in folder :. ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior

and Senior High Level. Learning Experience: Knowledge, skills, practices.

1155

Fun for all.

Hauser, Rick. 1977. Directions for active games, games played on paper and games to make. [24] p. :. ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: General, Member, Junior, Senior High Levels, and Adult. Learning experience: Knowledge, skills, practices. Personal growth.

1156

Fun-nite favorites.

Lahlum, Howard. 1969. Calls and tips for teaching several folk dances. Included is grand march, circle mixers, line dances and threesome dances. 24 p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Social. Personal growth.

1157

Go with gardening.

Wagner, Raymond. 1974. Contains 13 separate ideas for garden planting and care. Worksheets for members to complete. 1 v. [unpaged] :. ill. Document available: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Family; Decision making.

1158

Grasslands.

Dodds, Duaine L. 1979. To help youth become familiar with North Dakota grasslands, differences between grassland plants and to learn to use a plant key. 41 p. :. ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social.

1159

Grasslands - an introduction.
Dodds, Duaine L. McCullough,
Dorothea. Guerrero, Pat. 1978.
To help youth learn to
identify parts of the grass
plant and acquire a better
understanding of the grassland
resource. 36 p. : ill.
Document available from: North
Dakota 4-H Office, 116 Morrill
Hall, North Dakota State
University, Fargo, North
Dakota 58105. Publication
intended for: Member;
Elementary Level. Learning
Experience: Knowledge, skills,
practices; Family; Social.

1160

The growth of grass.
Dodds, Duaine L. 1980.
Discusses vocabulary important
in studying grass. Includes
quizzes relating to
germination, growth and
dispersal of grass seeds. 33
p. : ill. Document available
from: North Dakota 4-H Office,
116 Morrill Hall, North Dakota
State University, Fargo, North
Dakota 58105. Publication
intended for: Member;
Elementary and Junior High
Level. Learning Experience:
Knowledge, skills, practices;
Decision making; Personal
growth.

1161

Guide for judges.
Anderson, Sharon. 1975.
Exhibit judging guide for
foods, clothing, home
environment, flower
arrangements, horticulture,
vegetables and arts & crafts.
55 p. Document available from:
North Dakota 4-H Office, 116
Morrill Hall, North Dakota
State University, Fargo, North
Dakota 58105. Publication
intended for: Leader. Learning
Experience: Knowledge, skills,
practices; Decision making.

1162

**A guide to market grade
description and evaluation of
spring wheat.**
McDonald, Hugh J. 1977. To
help youth learn how standard
grade descriptions of hard red
spring wheat are determined.
[3] p. : ill. Document
available from: North Dakota
4-H Office, 116 Morrill Hall,
North Dakota State University,
Fargo, North Dakota 58105.
Publication intended for:
Member; Elementary Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

1163

**Harvesting & preparing
vegetables for exhibit.**

Wagner, Raymond E. Askew,
Robert G. 1978. The brochure
reviews information on the
selection and preparation of
30 kinds of vegetables for
exhibit. Includes merits and
faults used in judging
vegetable exhibits. [4] p.
Document available from: North
Dakota 4-H Office, 116 Morrill
Hall, North Dakota State
University, Fargo, North
Dakota 58105. Publication
intended for: Member;
Elementary Level. Learning
Experience: Knowledge, skills,
practices; Family; Decision
making.

1164

Hiking footwear.
Heintz, Robert H. 1973.
Discusses hiking footwear and
what a person should look for.
[1] p. Document available
from: North Dakota 4-H Office,
116 Morrill Hall, North Dakota
State University, Fargo, North
Dakota 58105. Publication
intended for: Member; Junior
and Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making; Careers,
earning and saving.

1165

Home living.
Bach, Annette. 1977. Home
environment ideas; decorating
with nature items; contracting
time & money; room care and
laundry; manners and
etiquette. 34 p. : ill.
Document available from: North
Dakota 4-H Office, 116 Morrill
Hall, North Dakota State
University, Fargo, North
Dakota 58105. Publication
intended for: Member; Junior
High Level. Learning
Experience: Knowledge, skills,
practices; Decision making;
Careers, earning and saving.

1166

Home living :. leaders guide.
Bach, Annette. 1977. Leaders
manual for home environment
project; ten suggested lesson
plans; demonstration ideas. 8
p. Document available from:
North Dakota 4-H Office, 116
Morrill Hall, North Dakota
State University, Fargo, North
Dakota 58105. Publication
intended for: Leader.

1167

**Home made ice fishing
equipment.**
Mork, Irving J. 1973. Designed
to show one how to make ice
fishing equipment. [1] p. :
ill. Document available from:
North Dakota 4-H Office, 116
Morrill Hall, North Dakota
State University, Fargo, North

Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

1168

How to build a charcoal fire.
Wagner, Raymond E. 1974. Suggested procedures to follow in making and lighting a charcoal fire. 2 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1169

How to make a terrarium.
Heintz, Robert H. 1973. Shows how to make and take care of a terrarium. Lists kinds of containers, drainage material, soil, plant selection and procedure. [1] p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Careers, earning and saving.

1170

How to pack a backpack.
Soberg, Ginny. 1973. Illustrates how to pack a backpack. 2 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level; Adult Level. Learning Experience: Knowledge, skills, practices, Decision making; Careers, earning and saving; Personal growth; Citizenship and community.

1171

How to use a compass.
Heintz, Robert H. 1973. Instructs one in the use of a compass. [2] p. : ill. Document available from: State 4-H Office, 116 Morrill Hall, State University Station, Fargo, ND 58105. Publication intended for: Member; Leader; Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Decision making; Careers,

earning and saving.

1172

Identification guide to market grade-factors in North Dakota wheat.

McDonald, Hugh J. 1977. To help youth identify 18 different factors that affect the market grade of North Dakota wheat. [3] p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Social.

1173

Identifying weeds and their seeds.

Mitich, Larry W. 1977. To help youth learn about weeds and their seed used in crop judging. Forty-three weeds and their seeds are described. Line drawings are included. 21 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social.

1174

The infant.

Harkness, Karen. 1966. Techniques for child care in relation to caring for an infant. Roles of a baby sitter. Safety ideas. [32] in various pagings : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices.

1175

Jobsearch handbook.
Anderson, Sharon. 1980. Handbook to use with AGNET computer program; Jobsearch. Provides career awareness information. 9 p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member and Senior High Level. Learning experience: Careers, earning and saving.

1176
Judging a class of grain and using scorecards.
 Mitich, Larry W. Wilkins, Howard D. 1979. To help youth learn what is included in a crops contest and judging a class of grain. Includes photos and descriptions of crop seeds. [9] p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social.

1177
Keeping a field notebook.
 Miller, D. Jackson. Mork, Irving J. 1973. Discusses how to develop a field notebook and how to use it. 1 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

1178
Know-how for knits.
 Rue, Sonja. 1974. Techniques for sewing and caring for single and double knit garments. Consumer buying of knits. 9 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

1179
Land judging in North Dakota.
 Wagner, Don F. Vasey, E. H. 1978. The land judging activity provides a guided study which helps youth understand by working with the soil. 20 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making; Social.

1180
Let's learn to knit.
 Frigstad, Arla. 1969. Advanced

knitting techniques; mending knitted garments; four needles; combination of colors; knitted trims. 32 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

1181
Let's learn to knit : beginner's book.
 Frigstad, Arla. 1969. Basic knitting stitches, casting on and binding stitches, patterns for simple items. 32 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary and Junior High Levels. Learning experience: Knowledge, skills, practices.

1182
Let's learn to knit : intermediate book.
 Frigstad, Arla. 1969. Second level of knitting techniques; yarn selection; pattern stitching; caring for knit garments. 26 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

1183
Let's put it in the freezer.
 Baeder, M. Jean. 1969. Home freezing of fruits, vegetables and meats. Labeling information and standards of quality and container selection. 24 p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

1184
Let's put it in the jar.
 Beck, Pat. 1979. Techniques for home canning of fruits, vegetables and pickles. Labeling information and standards of quality given. [7] p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105.

Publication intended for:
Member; Junior and Senior High
Level. Learning Experience:
Knowledge, skills, practices.

1185

Life in a live tree.

Heintz, Robert. 1978. Discover
the mammals, birds, insects
and other animals and plants
found in a live tree. [1] p.
Document available from: North
Dakota 4-H Office, 116 Morrill
Hall, North Dakota State
University, Fargo, North
Dakota 58105. Publication
intended for: Member,
Elementary, Junior and Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Personal growth.

1186

Life in a pond or stream.

Mork, Irving J. 1973. Designed
to teach one how to go about
looking for and catching small
life in ponds or streams. Very
good for anyone interested in
Entomology. [2] p. : ill.
Document available from: North
Dakota 4-H Office, 116 Morrill
Hall, North Dakota State
University, Fargo, North
Dakota 58105. Publication
intended for: Member,
Elementary, Junior and Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Careers, earning
and saving; Personal growth.

1187

Life in a shovelful of topsoil.

Heintz, Robert. 1978. Designed
to give a look at soil and its
composition. [1] p. Document
available from: North Dakota
4-H Office, 116 Morrill Hall,
State University Station,
Fargo, North Dakota 58105.
Publication intended for:
Member, Elementary, Junior and
Senior High Level. Learning
Experience: Knowledge, skills,
practices; Careers, earning
and saving.

1188

Life in a wooded area.

Heintz, Robert. 1978. To teach
a person how to look for
different kinds of things in a
wooded area. [1] p. Document
available from: North Dakota
4-H Office, 116 Morrill Hall,
North Dakota State University,
Fargo, North Dakota 58105.
Publication intended for:
Member, Elementary, Junior and
Senior High Level. Learning
Experience: Knowledge, skills,
practices; Personal growth.

1189

Livestock combination club study.

Hauser, Rick. 1974.
Suggestions for meeting plans,
special events and
demonstrations. [46] p. :
ill. Document available from:
North Dakota 4-H Office, 116
Morrill Hall, North Dakota
State University, Fargo, North
Dakota 58105. Publication
intended for: Leader and
Senior High Level. Learning
experience: Knowledge, skills,
practices. Decision making.

1190

Livestock combination club study :. member's manual.

Hauser, Rick. 1974. Includes
lessons on different cuts of
beef, pork and lamb; dairy
housing; history of the horse,
diseases affecting man and
ropes. 34 p. : ill. Document
available from: North Dakota
4-H Office, 116 Morrill Hall,
North Dakota State University,
Fargo, North Dakota 58105.
Publication intended for:
Member; Elementary and Junior
High Level. Learning
Experience: Knowledge, skills,
practices.

1191

Livestock judging guide.

Johnson, LaDon J. Kirkeide,
Melvin A. Johnson, John N.
1976. To teach members how to
select and compare animals for
judging. 24 p. : ill.
Document available from: North
Dakota 4-H Office, 116 Morrill
Hall, North Dakota State
University, Fargo, North
Dakota 58105. Publication
intended for: Member,
Elementary, Junior and Senior
High Levels. Learning
experience: Knowledge, skills,
practices. Decision making.
Personal growth.

1192

Livestock showmanship & grooming.

Strum, George E. Kirkeide,
Melvin A. Johnson, LaDon J.
Fisher, George E. Johnson,
John N. 1975. Designed to
teach how to groom and show
the different species of
livestock. 15 p. : ill.
Document available from: North
Dakota 4-H Office, 116 Morrill
Hall, North Dakota State
University, Fargo, North
Dakota 58105. Publication
intended for: Member,
Elementary, Junior and Senior
High Levels. Learning
experience: Knowledge, skills,
practices. Careers, earning
and saving. Personal growth.

1193

The mad, mad world of pots & pans.

Radcliffe, Ruth. 1969. Information on buying and using the various kinds of cookware. Also, buying cookware by contract. [8] p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member ; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1194

Making mixes at home.

Sunderlin, Gertrude. Beck, Pat. 1975. Recipe and preparation techniques for using home prepared mixes to make a variety of food products--breads, cookies, meats, beverages, snacks and milk products. [23] p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

1195

Me, myself and I.

Welch, Diane T. Kitching, Jennie C. 1977. Lesson ideas for teens on developing self concept, emotions during adolescence and social relationships. [4] p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Senior High Level. Learning Experience: Family; Decision making; Social.

1196

Me, myself and I :. leader guide.

Welch, Diane T. Kitching, Jennie C. 1977. Leader's ideas for teen lessons on parenthood and development of self-concept. [4] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader. Learning Experience: Family.

1197

Mealtime manners :. leader's guide.

Wagner, Rymond E. 1974. A guide to help volunteers as they work with youth on making

family meals a happy time. 1 p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Low income; Leader; Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1198

Meat and more!

Baker, Mary Jean. 1972. Pointers for helping children learn about the meat group. Includes game and material needed for lesson. [4] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

1199

Meet the meats.

Beck, Pat. 1976. Selecting, buying and preparing cuts of beef, pork, lamb and veal. Recipes included. 16 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

1200

Mini-garden project.

Wagner, Raymond E. Askew, Robert G. 1974. For individual with limited space for growing plants. Materials include information of containers, soil, planting dates, fertilizer, disease, insects and harvesting. [6] p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary. Learning Experience: Knowledge, skills, practices; Family; Social.

1201

Needlepoint embroidery.

Crow, Linda. 1980. Beginning needlepoint instructions. Needlepoint material from Wool Education Center. Includes project requirements, evaluation standards and references. 7 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill

Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

1202

One giant step.

Welch, Diane T. Kitching, Jennie C. 1977. Lesson ideas for teens on dating and preparation for marriage and possibly parenthood. [4] p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Family.

1203

One giant step :. leader guide.

Welch, Diane T. Kitching, Jennie C. 1977. Leader's ideas for teen lessons on dating and human relations in preparation for marriage. [4] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader. Learning Experience: Family.

1204

Order and importance of crop judging factors in North Dakota.

Berglund, Duane R. 1979. To help youth learn the various factors that are used in selection of high quality seed. Includes worksheet on placing seed grain samples. [3] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social.

1205

The outdoor code.

Wagner, Raymond E. 1974. A code to help youth clean up after cooking outdoors. 1 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Low income; Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision

making; Social; Personal growth; Citizenship and community.

1206

Outdoor eating.

Beck, Pat. 1980. Food ideas for picnics, barbecuing, backpacking and hiking. Food safety & storage ideas are included. Recipes included. 15 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

1207

Outdoor eating I.

Wagner, Raymond E. 1974. An outline for volunteers to use in helping youth learn about the value of fruits and vegetables--includes ideas for cooking outdoors. [1] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Social; Personal growth.

1208

Outdoor eating II.

Wagner, Raymond E. 1974. Examples for a volunteer to use in helping youth learn about the milk group including outdoor activities. [1] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader; Senior High Level. Learning Experience: Knowledge skills, practices; Family; Social; Personal growth.

1209

Outdoor eating III.

Wagner, Raymond E. 1974. A guide for volunteers to use in helping youth learn about the meats group--includes activities. [1] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader; Senior High Level. Learning Experience: Knowledge, Family; Decision making; Social; Personal growth.

1210
Outdoor eating IV :. leader's guide.
 Wagner, Raymond E. 1974. Suggestions for volunteers to use with youth as they work with breads and cereals out-of-doors. 1 p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Social; Personal growth.

1211
Outline for atmospheric pollution phase of environmental conservation.
 Wagner, Raymond E. 1974. Air quality and activities to illustrate contaminants plus procedures to evaluate air pollution. [3] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth; Citizenship and community.

1212
Outline for fossil phase of environmental conservation record.
 Ashworth, Allan C. Wagner, Raymond E. 1974. Provides a guide for youth to use in learning how to identify a number of types of fossils. [4] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth; Citizenship and community.

1213
Outline for forestry phase of environmental conservation.
 Heintz, Robert H. Wagner, Raymond E. 1974. For use in study of trees and their importance to man. Includes possible work activities and references. [1] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices;

Social; Personal growth.

1214
Outline for insect phase of environment conservation record.
 McBride, Dean K. Wagner, Raymond E. 1974. A place to record the results of a survey for insects in a given location. [2] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth; Citizenship and community.

1215
Outline for soils phase of environmental conservation record.
 Wagner, Don. Wagner, Raymond E. 1974. Discusses components and properties of soils, Includes references and activities. [14] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

1216
Outline for water quality phase of environmental conservation record.
 Wagner, Raymond E. 1974. Gives ideas for youth to use in making a water quality study as a part of a conservation effort. [7] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Careers, earning and saving; Personal growth; Citizenship and community.

1217
Outline for weed control phase of environmental conservation record.
 Mitich, Larry W. Wagner, Raymond E. 1974. Helps youth learn concerns about weeds and their control and includes specific activities. [3] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication

intended for: Member,
Elementary, Junior and Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Family; Decision
making; Social; Personal
growth; Citizenship and
community.

1218

**Outline for wildlife phase of
environmental conservation
record.**

Mork, Irving J. Wagner,
Raymond E. 1974. Includes
references and activities for
birds, mammals, reptiles and
amphibians, and fish. 6 p.
Document available from: North
Dakota 4-H Office, 116 Morrill
Hall, North Dakota State
University, Fargo, North
Dakota 58105. Publication
intended for: Member, Junior
and Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

1219

Packing your food.

Wagner, Raymond E. 1974.
Suggestions for youth to use
in packing food for an outdoor
activity. [2] p. : ill.
Document available from: North
Dakota 4-H Office, 116 Morrill
Hall, North Dakota State
University, Fargo, North
Dakota 58105. Publication
intended for: Member;
Elementary and Junior High
Level. Learning Experience:
Knowledge, skills, practices;
Family; Decision making;
Social; Personal growth.

1220

Pants for today.

Rue, Sonja. 1973. Techniques
for constructing pants or
jeans -- pattern selection,
fabrics, pattern adjustments,
pressing and designing your
own. 15 p. : ill. Document
available from: North Dakota
4-H Office, 116 Morrill Hall,
North Dakota State University,
Fargo, North Dakota 58105.
Publication intended for:
Member, Junior and Senior High
Levels. Learning experience:
Knowledge, skills, practices.

1221

Personal conference judging.

Wagner, Raymond E. 1977.
Techniques and steps in doing
interview judging at shows and
Achievement Days. 4 p. : ill.
Document available from: North
Dakota 4-H Office, 116 Morrill
Hall, North Dakota State
University, Fargo, North
Dakota 58105. Publication
intended for: Member; Junior
and Senior High Level.
Learning Experience:

Knowledge, skills, practices;
Decision making.

1222

**Poultry Project Unit 2 ::
member's manual.**

Mork, Irving J. 1965. Prepared
for members enrolled in
Poultry Project. It discusses
egg production, ease of and
making an incubator, freezing
and cooking poultry and
careers. 20 p. : ill.
Document available from: North
Dakota 4-H Office, 116 Morrill
Hall, North Dakota State
University, Fargo, North
Dakota 58105. Publication
intended for: Member;
Elementary and Junior High
Level. Learning Experience:
Knowledge, skills, practices;
Careers, earning and saving;
Personal growth.

1223

The preschooler.

Harkness, Karen. 1966.
Techniques for caring for a
preschooler. Creative play and
activities. Baby sitting ideas
and safety. [37] p. : ill.
Document available from: North
Dakota 4-H Office, 116 Morrill
Hall, North Dakota State
University, Fargo, North
Dakota 58105. Publication
intended for: Member; Junior
and Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Family.

1224

Preserving specimen.

Mork, Irving J. 1973. Details
how to preserve specimens
collected in the outdoors. 1
p. : ill. Document available
from: North Dakota 4-H Office,
116 Morrill Hall, North Dakota
State University, Fargo, North
Dakota 58105. Publication
intended for: Member;
Elementary, Junior and Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Careers, earning
and saving; Personal growth.

1225

Project guide for ceramics.

Olson, Tom. Thiel, Mrs. Sam.
1978. Guide sheet with
suggested requirements,
standards and references for
ceramic projects. 2 p. : ill.
Document available from: North
Dakota 4-H Office, 116 Morrill
Hall, North Dakota State
University, Fargo, North
Dakota 58105. Publication
intended for: Member,
Elementary, Junior and Senior
High Levels. Learning
experience: Knowledge, skills,
practices.

1226

Quarter horse judging guide.
Hauser, Rick. 1977. Reprinted from material obtained from Texas. Used to train 4-H members in judging horses. 19 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Junior and Senior High Levels.
Learning experience: Knowledge, skills, practices. Careers, earning and saving. Personal growth.

Explains the different types of .22 rifles. Discusses several possible uses for the .22 rifle and hunting techniques. 39 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level.
Learning Experience: Knowledge, skills, practices; Decision making; Social; Personal growth.

1227

Quick meals.
Beck, Pat. Anderson, Sharon. 1977. Ten lesson plans for leaders to use with quick meals 4-H projects. Tips on interesting youth in foods projects. 14 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices.

1231

Saw or sew furnishings.
Bach, Annette. 1980. Simple home decorating ideas that can be made by sawing wood or pipe or sewing fabrics. Project activities include tables, pillows, game boards, exercise mats, etc. 18 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level.
Learning Experience: Knowledge, skills, practices.

1228

Refinishing furniture.
Bach, Annette. 1980. Techniques for finishing wood items, stripping and refinishing wood pieces and antiquing. [13] p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level.
Learning Experience: Knowledge, skills, practices.

1232

Selecting outdoor food.
Wagner, Raymond E. 1974. A guide for volunteers to use in helping youths learn safe aspects of using foods outdoors. [1] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader; Senior High Level.
Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1229

Safe shooter - Unit 1 : member's manual.
Gildersleeve, Tom W. 1965. Contains nine lessons on shooter responsibility, kinds of guns, target ideas and the history of shooting. Basic gun course with worksheets. 41 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level.
Learning Experience: Knowledge, skills, practices; Decision making; Social; Personal growth; Citizenship and community.

1233

Sew your own--sportswear.
Rue, Sonja. 1974. Techniques for sewing sportswear including flat-felled seams, rolled collars, set-in sleeves, machine buttonholes and pressing skills. 8 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Junior and Senior High Levels.
Learning experience: Knowledge, skills, practices.

1230

Safe shooter - Unit 2 : member's manual.
Gildersleeve, Tom W. 1968.

1234

Sewing special fabrics.
Rue, Sonja. 1976. Techniques for sewing with special fabrics - such as napped, leather, knits, brocades,

piles, furs, etc. 8 p. :. ill.
Document available from: North
Dakota 4-H Office, 116 Morrill
Hall, North Dakota State
University, Fargo, North
Dakota 58105. Publication
intended for: Member; Junior
and Senior High Level.
Learning Experience:
Knowledge, skills, practices.

1235

Sewing stripes, plaids & prints.
Rue, Sonja. 1975. Three level
project in sewing with prints,
balanced and unbalanced
stripes, even and uneven
plaids and border prints. 7 p.
:. ill. Document available
from: North Dakota 4-H Office,
116 Morrill Hall, North Dakota
State University, Fargo, North
Dakota 58105. Publication
intended for: Member, Junior
and Senior High Levels.
Learning experience:
Knowledge, skills, practices.

1236

Sleep and lounge wear.
Olson, Jackie. 1970. Clothing
project on selecting fabrics
and notions for sleepwear,
construction techniques and
consumer buying ideas. 22 p.
:. ill. Document available
from: North Dakota 4-H Office,
116 Morrill Hall, North Dakota
State University, Fargo, North
Dakota 58105. Publication
intended for: Member, Junior
and Senior High Levels.
Learning experience:
Knowledge, skills, practices.

1237

Spiced bananas.
Wagner, Raymond E. 1974. A
simple recipe for grilling a
banana outdoors. [1] p. :.
ill. Document available from:
North Dakota 4-H Office, 116
Morrill Hall, North Dakota
State University, Fargo, North
Dakota 58105. Publication
intended for: Member;
Elementary and Junior High
Level. Learning Experience:
Knowledge, skills, practices;
Family; Social; Personal
growth.

1238

Sport garments & sport gear.
Gulbrandson, Ruth. 1980. To
learn skills in sewing outdoor
sportsgear and sports wear
from kits or commercial
patterns. Consumer buying tips
also. 22 p. :. ill. Document
available from: North Dakota
4-H Office, 116 Morrill Hall,
North Dakota State University,
Fargo, North Dakota 58105.
Publication intended for:
Member, Junior and Senior High
Levels. Learning experience:

Knowledge, skills, practices.

1239

Sport garments & sport gear.
Gulbrandson, Ruth. 1980. Gives
information on selection,
construction and care of
sports articles. Includes
references and ideas for
demonstrations and exhibits.
22 p. :. ill. Document
available from: North Dakota
4-H Office, 116 Morrill Hall,
North Dakota State University,
Fargo, North Dakota 58105.
Publication intended for:
Member; Junior and Senior High
Level. Learning Experience:
Knowledge, skills, practices.

1240

Stick cookery.
Wagner, Raymond E. 1974. This
is a recipe for a variation of
basic hamburger or the foil
cookery meal using a stick on
which to do the cooking. 1 p.
:. ill. Document available
from: North Dakota 4-H Office,
116 Morrill Hall, North Dakota
State University, Fargo, North
Dakota 58105. Publication
intended for: Low income;
Member; Elementary and Junior
High Level. Learning
Experience: Knowledge, skills,
practices; Family; Social;
Personal growth.

1241

Storing food out-of-doors.
Wagner, Raymond E. 1974. Tips
for youth to use to store food
outdoors. [1] p. Document
available from: North Dakota
4-H Office, 116 Morrill Hall,
North Dakota State University,
Fargo, North Dakota 58105.
Publication intended for:
Member; Elementary and Junior
High Level. Learning
Experience: Knowledge, skills,
practices; Family; Decision
making; Social; Personal
growth.

1242

Study of a log.
Heintz, Robert H. 1973.
Designed to teach what is
happening to trees that are
dead or have started to rot.
[1] p. Document available
from: North Dakota 4-H Office,
116 Morrill Hall, North Dakota
State University, Fargo, North
Dakota 58105. Publication
intended for: Member,
Elementary, Junior and Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Careers, earning
and saving.

1243

Suggested requirements for English riding.

Hauser, Rick. 1974. Designed for use of members enrolled in English Horsemanship. 15 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Careers, earning and saving. Personal growth.

1244

Suggested requirements for western horsemanship.

Hauser, Rick. 1979. For members enrolled in western horsemanship. Lists requirements for showing at halter, showmanship at halter, western pleasure, riding, reining, trail class and performance events. 16 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary and Junior High Levels. Learning experience: Knowledge, skills, practices. Careers, earning and saving. Personal growth.

1245

Suggestions for making educational exhibits.

Wagner, Raymond E. 1974. Several types of educational exhibits are illustrated, including a living exhibit, bulletin boards, dioramas, electric quiz games and murals. [8] p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Personal growth.

1246

Tanning a snakeskin.

Mork, Irving J. 1973. Designed to teach a person how to tan a snakeskin. [2] p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Careers, earning and saving.

1247

"Taste-in."

Wagner, Raymond E. 1974. A guide for volunteers to use in working with youth to relate the appeal of food to the five senses. [2] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

1248

The toddler.

Harkness, Karen. 1966. Techniques for working with toddlers, caring for and playing with. Baby sitting and safety ideas. [34] p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Family.

1249

Universally unique.

Welch, Diane T. Kitching, Jennie C. 1977. Lesson material for teens on families - characteristics, functions and factors affecting. [4] p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Personal growth.

1250

Universally unique :. leader guide.

Welch, Diane T. Kitching, Jennie C. 1977. Discussions and activities for family lesson including kinds of families, functions of families and future of the family. [4] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader. Learning Experience: Family.

1251

Vet science unit II leaders guide answer supplement.

Fragodt, Alvin L. 1972. Gives answers to vet sciences unit 2. [17] p. Document available

from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

1252

Weight control :. to lose, to gain, to maintain.

Adams, Judith F. 1973. Health projects offering help in gaining, losing or maintaining body weight. 10 p. :. ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

1253

What is a bird?.

McCullough, Dorothea. 1975. Designed to teach the differences in various species of birds. 4 p. :. ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Careers, earning and saving.

1254

Wheels :. Leader's guide.

Westra, Jack W. 1976. Helps develop an understanding of the automobile in society & the economy and encourages positive behavioral driving attitudes. 1 v. [unpaged]. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader; Senior High Level. Learning experience: Knowledge, skills, practices.

1255

Wildlife.

Mork, Irving J. Grondahl, C. R. 1970. Designed for members enrolled in the pheasant project. 15 p. :. ill. Document available from: State 4-H Office, 116 Morrill Hall, State University Station, Fargo, ND 58105. Publication intended for: Member, Elementary and Junior High Levels. Learning experience:

Knowledge, skills, practices. Careers, earning and saving.

1256

Wildlife management.

Harmon, Keith. 1971. Designed to help members enrolled in wildlife project. 41 p. :. ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving. Personal growth. Citizenship and community.

1257

Window wardrobe.

Bach, Annette. 1974. Ways to cover windows, purchasing window treatments and constructing lined and unlined draperies, curtains and roller shades. 37 p. :. ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Senior High Level. Learning Experience: Knowledge, skills, practices.

1258

Woodcraft.

Hankel, Wayne. 1971. Acquaints users with a variety of basic woodcraft skills. Information on wood finishing techniques, driftwood, whittling, chip carving, wood burning, decoupage and hypage. 25 p. :. ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary and Junior Level. Learning Experience: Knowledge, skills, practices. Note: 4-H arts and crafts/ 1.

1259

You - the 4-H demonstrator.

Anderson, Sharon. 1978. Techniques for 4-H demonstration--organization and presentation. [4] p. :. ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Personal growth.

1260

**4-H agronomy, unit 1 :.
member's manual.**

Mitich, Larry W. Wilkins,
Howard D. 1978. These eight
lessons introduce material on
seeds and what makes them
grow, different classes of
wheat, making a wooden plant
press and mounting plant
specimens. [16] p. :. ill.
Document available from: North
Dakota 4-H Office, 116 Morrill
Hall, North Dakota State
University, Fargo, North
Dakota 58105. Publication
intended for: Member;
Elementary Level. Learning
Experience: Knowledge, skills,
practices; Family; Social.

1261

**4-H agronomy, unit 2 :.
member's manual.**

Mitich, Larry W. McDonald,
Hugh J. 1977. This includes
eight lessons to help youth
understand how seeds sprout,
how to conduct a germination
test, how to judge crop seeds
and prepare exhibits. 38 p. :.
ill. Document available from:
North Dakota 4-H Office, 116
Morrill Hall, North Dakota
State University, Fargo, North
Dakota 58105. Publication
intended for: Member;
Elementary Level. Learning
Experience: Knowledge, skills,
practices; Family; Careers,
earning and saving.

1262

**4-H agronomy, unit 3 :.
member's manual.**

Mitich, Larry W. McDonald,
Hugh J. 1977. These lessons
will help youth learn the
parts of a plant, how
nutrients move in plants, how
soil is formed and chemical
weed killers. 33 p. :. ill.
Document available from: North
Dakota 4-H Office, 116 Morrill
Hall, North Dakota State
University, Fargo, North
Dakota 58105. Publication
intended for: Member; Junior
High Level. Learning
Experience: Knowledge, skills,
practices; Family; Social.

1263

4-H beef project unit 2.

NDSU Animal Science Staff.
1977. Designed for advanced
beef project members.
Discusses rations, records,
performance testing, grades
and carcass quality. 43 p. :.
ill. Document available from:
North Dakota 4-H Office, 116
Morrill Hall, North Dakota
State University, Fargo, North
Dakota 58105. Publication
intended for: Member, Junior
and Senior High Levels.
Learning experience:
Knowledge, skills, practices.
Decision making. Careers,
earning and saving. Personal

growth.

1264

4-H club study demonstrations.

Lahlum, Howard K. 1971.
Package of 18 demonstrations
that a leader can assign to
members according to age and
ability of the member. [21] p.
:. ill. Document available
from: North Dakota 4-H Office,
116 Morrill Hall, North Dakota
State University, Fargo, North
Dakota 58105. Publication
intended for: Member;
Elementary Level. Learning
Experience: Knowledge, skills,
practices; Personal growth.

1265

4-H club study leaders guide.

Lahlum, Howard K. 1971. This
club study material provides
added help for inexperienced
leaders. It provides
suggestions for roll call,
demonstrations, assignments &
background material on the
lessons. 31 p. :. ill.
Document available from: North
Dakota 4-H Office, 116 Morrill
Hall, North Dakota State
University, Fargo, North
Dakota 58105. Publication
intended for: Leader. Learning
Experience: Knowledge, skills,
practices; Social.

1266

4-H crop & weather project.

Wagner, Raymond E. 1977. A
report from on which youth
record data about weather
conditions for the week and
the stages of crop
development. [4] p. Document
available from: North Dakota
4-H Office, 116 Morrill Hall,
North Dakota State University,
Fargo, North Dakota 58105.
Publication intended for:
Member, Elementary, Junior and
Senior High Level. Learning
Experience: Knowledge, skills,
practices; Family; Decision
making; Personal growth;
Citizenship and community.

1267

4-H crop & weather record.

Wagner, Raymond E. 1980.
Report form for County
Extension staff to use to
record data from weekly
summaries of reports from
participants in the project.
[1] p. Document available
from: North Dakota 4-H Office,
116 Morrill Hall, North Dakota
State University, Fargo, North
Dakota 58105. Publication
intended for: Member,
Elementary, Junior and Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Family; Decision
making; Personal growth;
Citizenship and community.

1268

4-H crop & weather reporter.

Wagner, Raymond E. 1979. A permanent record from on which youth record weekly data about rainfall and stages of crop development in their area. [4] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth; Citizenship and community.

1269

4-H energy project.

Hirning, Harvey J. Edwards, Dale. Lundstrom, Darnell R. Johnson, Dexter. Hauck, Duane D. Hofman, Vernon. 1980. Helps youth learn about sources of energy, ideas for conservation, and to create an awareness of the difference between energy substitution and energy conservation. 32 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary Level. Learning Experience: Knowledge, skills, practices; Social.

1270

4-H entomology leader's guide.

McBride, Dean. 1979. Material is a guide for ways to present the entomology project to youth in a series of seven lessons. 5 p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader; Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth; Citizenship and community.

1271

4-H entomology manual.

Colberg, Wayne. 1960. This material is a reference guide for members about insects, their life stages, collecting, labelling, identification and exhibiting. 31 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary, Junior and Senior High Level. Leaders guide available. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth;

Citizenship and community.

1272

4-H environmental conservation activities.

Dodds, Duaine L. Mork, Irving J. Wagner, Raymond E. 1974. Gives ideas for activities in which local or community 4-H groups can become more familiar with the need for conservation and hints in organizing records. [3] p. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Social; Personal growth; Citizenship and community.

1273

4-H Poultry project unit 2.

Mork, Irving J. 1965. Prepared for members enrolled in Poultry Project. It discusses egg production, ease of and making an incubator, freezing and cooking poultry and careers. 18 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Careers, earning and saving; Personal growth.

1274

4-H program guide.

Crow, Linda. Wagner, Raymond. 1978. Contains a brief description of the North Dakota 4-H program, organizing meetings, the awards program and ceremonies. Written to help leaders understand the 4-H program. 17 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University, Fargo, North Dakota 58105. Publication intended for: Leader; Senior High Level. Learning Experience: Knowledge, skills, practices.

1275

4-H rabbit project facts.

Mork, Irving J. 1960. Designed to teach project members how to care for their project. Basic information on feeding, breeding and care of the rabbit. 5 p. : ill. Document available from: North Dakota 4-H Office, 116 Morrill Hall, North Dakota State University,

Fargo, North Dakota 58105.
Publication intended for:
Member; Elementary and Junior
High Level. Learning
Experience: Knowledge, skills,
practices; Careers, earning
and saving; Personal growth.

1276

**4-H Safety project :. safety
around the home -- Unit 1,
member's manual.**
Vogel, Sebastian L. 1968.
Contains nine lessons on areas
of home safety and first aid,
including falls, poisons, lawn
mower safety and electricity.
21 p. :. ill. Document
available from: North Dakota
4-H Office, 116 Morrill Hall,
North Dakota State University,
Fargo, North Dakota 58105.
Publication intended for:
Member; Junior and Senior High
Level. Learning Experience:
Knowledge, skills, practices;
Family; Personal growth;
Citizenship and community.

1277

4-H swine project.
Steevens, Barry J. 1977.
Designed for members carrying
the swine project. Reprinted
from Wyoming material.
Discusses selection, feeding,
breeding, management and
showing. 34 p. :. ill.
Document available from: North
Dakota 4-H Office, 116 Morrill
Hall, North Dakota State
University, Fargo, North
Dakota 58105. Publication
intended for: Member,
Elementary and Junior High
Levels. Learning experience:
Knowledge, skills, practices.
Decision making. Careers,
earning and saving. Personal
growth.

OHIO

1278

Advanced beef breeding.
Smith, Richard O. 1975. This
publication focuses on beef
production, advanced genetics,
economics of beef production,
testing, and advanced
nutrition and marketing. 24 p.
:. ill. Document available
from: Ohio State University,
State 4-H Office, 2120 Fyffe
Rd., Columbus, Ohio 43210.
Publication intended for
General; Member; Senior High
Level. Learning Experience:
Knowledge, skills, practices;
Decision making; Careers,
Earning and saving; Personal
growth.

1279

Advanced Field Crops.
Ohio State University.
Cooperative Extension Service.
1975. Of the nearly 100
elements, nitrogen seems to

have the quickest and most
noticeable effect on plant
growth. 12 p. Document
available from: State 4-H
Office, 2120 Fyffe Road,
Columbus, Ohio 43210.
Publication intended for:
Member; Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making; Careers,
earning and saving.

1280

Advanced horse science.
Kline, Robert C. 1979. This
publication focuses on the
proper feeding techniques for
horses. 28 p. :. ill. Document
available from: Ohio State
University, State 4-H Office,
2120 Fyffe Rd., Columbus, Ohio
43210. Publication intended
for: Member; Senior High
Level. Learning Experience:
Knowledge, skills, practices;
Decision making; Personal
growth.

1281

Advanced poultry production.
Marquand, James W. 1979. This
publication focuses on
learning the responsibilities
required to raise a flock of
chickens. Skills in breeding,
management, feeding and
marketing are also discussed.
15 p. :. ill. Document
available from: Ohio State
University, State 4-H Office,
2120 Fyffe Rd., Columbus, Ohio
43210. Publication intended
for: Member; Senior High
Level. Learning Experiences:
Knowledge, skills, practices;
Decision making.

1282

Advanced steer feeding.
Reed, Randall R. 1977. This
publication focuses on
developing responsibility and
gaining practical experiences
in feeding and caring for
livestock. 36 p. :. ill.
Document available from: Ohio
State University, State 4-H
Office, 2120 Fyffe Rd.,
Columbus, Ohio 43210.
Publication intended for
Member; Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making; Careers,
earning and saving; Personal
growth.

1283

The avian embryo.
Marquand, James W. 1978. This
publication focuses on the
life as it begins by studying
chick embryology. Steps on how
to build an incubator are
included. 12 p. :. ill.
Document available from: Ohio
State University, State 4-H

Office, 2120 Fyffe Rd.,
Columbus, Ohio 43210.
Publication intended for:
Member; Elementary Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

1284

Basic 4-H horsemanship.
Hutton, Dr. C. A. Kline, Dr.
Robert. 1975. This publication
focuses on horse science and
the skills of a horseman or
horsewoman. Care and feeding
procedures are also included.
24 p. : ill. Document
available from: Ohio State
University, State 4-H Office,
2120 Fyffe Rd., Columbus, Ohio
43210. Publication intended
for: Member; Elementary Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

1285

**Beginning 4-H recreation
leaders.**
Barnhart, Lester. Baumgardner,
Gale. 1974. You have an
important job! You are going
to help your friends and club
members have fun. 8 p. : ill.
Document available from: State
4-H Office, 2120 Fyffe Road,
Columbus, Ohio 43210.
Publication intended for:
Member; Elementary Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

1286

**Bread, a basic of better
meals.**
Hall, Pauline G. 1974. Methods
and techniques for creating
and baking yeast breads.
Topics includes kneading,
rising, molding, shaping and
baking breads. 19 p. : ill.
Document available from: Ohio
State University, State 4-H
Office, 2120 Fyffe Rd.,
Columbus, Ohio 43210.
Publication intended for:
Member; Junior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making; Personal
growth.

1287

Breeding gilt I.
Barnes, Herbert. 1977. This
publication is designed to
give elementary instructions
in selection of breeding. It
also focuses on feeding and
caring for the gilt. 7 p. :
ill. Document available from:
Ohio State University, State
4-H Office, 2120 Fyffe Rd.,
Columbus, Ohio 43210.
Publication intended for:
Member; Elementary Level.
Learning Experience:

Knowledge, skills, practices;
Decision making.

1288

Clothes for school.
Haynes, Orena. Deyo, Norma
1974. This publication gives
instruction for construction,
selection, coordination, and
repair of clothing for a more
pleasing appearance. 7 p. :
ill. Document available from:
Ohio State University, State
4-H Office, 2120 Fyffe Rd.,
Columbus, Ohio 43210.
Publication intended for
Member; Junior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making; Personal
growth.

1289

Conditioning the racehorse.
Thomas, Duane. Kline, Robert.
197?. One of the most
important qualities a horse
trainer must learn is "self
discipline". Self discipline
allows the trainer to mentally
concentrate and observe every
aspect of the horses training
schedule. 18 p. : ill.
Document available from: State
4-H Office, 2120 Fyffe Road,
Columbus, Ohio 43210.
Publication intended for:
Member; Senior High Level.
Learning experience:
Knowledge, skills, practices;
Decision making.

1290

Creative writing for teens.
Hall, Marsha S. 197?. The
realms of written
communication are boundless.
From the personal tone of the
writer's journal, the phrases
of a poem describing the early
morning hours of a spring day;
creative writing is painting
in the form of words. 16 p.
Document available from: State
4-H Office, 2120 Fyffe Road,
Columbus, Ohio 43210.
Publication intended for:
Member; Senior High Level.
Learning experience:
Knowledge, skills, practices;
Decision making.

1291

Dairy goat production project.
Porterfield, Ralph A. Staubus,
John R. 1974. This publication
provides an opportunity for
increasing knowledge in the
areas of breeding, feeding and
management of dairy goats. It
contains tips for decision
making, record-keeping,
fitting and showing.
Leadership development is
emphasized. 12 p. : ill.
Document available from: Ohio
State University, State 4-H
Office, 2120 Fyffe Rd.,

Columbus, Ohio 43210.
Publication intended for:
Member; Elementary Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

State 4-H Office, 2120 Pyffe
Road, Columbus, Ohio 43210.
Publication intended for:
Member; Junior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

1292

The dairy kid.

Porterfield, Ralph A. Staubus,
John R. 1977. This publication
will assist in gaining
knowledge and understanding in
the areas of selection,
breeding, feeding, management,
fitting, showing, judging and
recordkeeping applied to dairy
kids. 15 p. : ill. Document
available from: Ohio State
University, State 4-H Office,
2120 Pyffe Rd., Columbus, Ohio
43210. Publication intended
for Member; Elementary Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

1296

Exploring our forests.

Coven, William. 1975. The
history of the United States
is staged against a forest
background. Our forests have
provided a large part of the
raw materials used to build
our cities, our industries,
and our trade. 24 p. : ill.
Document available from: State
4-H Office, 2120 Pyffe Road,
Columbus, Ohio 43210.
Publication intended for:
Member; Elementary Level.

1293

Eats for treats, food to take and share.

Gray, Evelyn J. 1974. Covers
the concepts involved in
preparing nutritious snacks.
Food safety is emphasized. 12
p. : ill. Document available
from: Ohio State University,
State 4-H Office, 2120 Pyffe
Rd., Columbus, Ohio 43210.
Publication intended for:
Member; Elementary Level.
Learning Experience:
Knowledge, skills, practices;
Decision making; Personal
growth.

1297

Exploring our insect world :. advisor's guide.

National 4-H Entomology
Program Development Committee.
1972. Leaders guide for
assisting club members in
entomology projects. 68 p. :
ill. Document available from:
State 4-H Office, 2120 Pyffe
Road, Columbus, Ohio 43210.
Publication intended for:
Leader. Learning experience:
Knowledge, skills, practices;
Decision making.

1294

Edge Finishes.

Haynes, Orena. ;. Deyo, Norma.
1973. Never underestimate the
importance of hems, facings,
and bindings to the overall
appearance of your garment.
Take the hem of a dress for
instance; it can make or break
your garment. [16] p. : ill.
Document available from: State
4-H Office, 2120 Pyffe Road,
Columbus, Ohio 43210.
Publication intended for:
Member, Junior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

1298

Exploring our insect world - through insect rearing.

Sauer, Richard. 1974. Insects
are around us everywhere. Many
insects compete for man's
food, fiber and shelter. Other
times they bite or sting and
transmit diseases. 15 p. :
ill. Document available from:
State 4-H Office, 2120 Pyffe
Road, Columbus, Ohio 43210.
Publication intended for:
Member; Elementary Level.
Learning experience:
Knowledge, skills, practices;
Decision making.

1299

Exploring our insect world I.

National 4-H Entomology
Program Development Committee.
1975. There are more different
kinds of insects in the world
than all other living things
put together. Some are so
small we need a microscope to
see them and others are
several inches in length. 27
p. : ill. Document available
from: State 4-H Office, 2120
Pyffe Road, Columbus, Ohio
43210. Publication intended
for: Member; Elementary Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

1295

Establishing my vineyard :. 4-H grape project.

Cahoon, Garth. Utzinger, James
D. 1975. Grapes have been
grown in Ohio ever since the
state was formed in 1803 and
probably even before that. In
1825, Nicholas Longworth, a
Cincinnati, Ohio, business man
and grape grower, introduced
the Catawba variety in that
area of the state. 11 p. :
ill. Document available from:

1300

Exploring our insect world II.
National 4-H Entomology
Program Development Committee.
1975. An easy way to learn
about insects is to study
their life cycle. This can be
done by rearing insects in
captivity and making daily
observations. 26 p. : ill.
Document available from: State
4-H Office, 2120 Pyffe Road,
Columbus, Ohio 43210.
Publication intended for:
Member; Junior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

1301

The family vegetable garden.
Uttinger, James D. Wittmeyer,
E. C. Evelyn, Gray. 1975.
Family members can make a
contribution to good health by
eating well-balanced meals.
The family vegetable garden
can produce a large part of
the foods required for
nutritious meals. [12] p.
Document available from: State
4-H Office, 2120 Pyffe Road,
Columbus, Ohio 43210.
Publication intended for:
Member; Elementary Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

1302

The farm herd.
Barnes, Herbert. 1972. This
publication focuses on the
management of commercial herd
of hogs. 15 p. : ill.
Document available from: Ohio
State University, State 4-H
Office, 2120 Pyffe Rd.,
Columbus, Ohio 43210.
Publication intended for:
Member; Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

1303

**Fitting & showing dairy
cattle.**
Porterfield, Ralph A. 1975.
Fitting and showing is not an
attempt to fool the judge but
rather a reflection upon you.
[8] p. : ill. Document
available from: State 4-H
Office, 2120 Pyffe Road,
Columbus, Ohio 43210.
Publication intended for:
Member; Junior High Level.

1304

**From seeds to flowers--growing
annual flowers.**
Caldwell, James L. 1975. An
annual flower is a plant that
completes its life cycle from
seed in one year. Annual
flowers must be started each
year from seeds. 15 p. : ill.

Document available from: State
4-H Office, 2120 Pyffe Road,
Columbus, Ohio 43210.
Publication intended for:
Member; Elementary and Junior
High Level. Learning
Experience; Knowledge, skills,
practices; Decision making.

1305

**From seeds to flowers--growing
bedding plants.**
Caldwell, James L. 1976.
Annual flowers are plants that
grow from seed to flower and
die in one year. By starting
these plants from seed, you
will have a wider variety of
different annuals. 15 p. :
ill. Document available from:
State 4-H Office, 2120 Pyffe
Road, Columbus, Ohio 43210.
Publication intended for:
Member; Elementary Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

1306

Genealogy.
Liess, Roger. 1979. A guide to
be used to trace one's family
back through previous
generations. 19 p. : ill.
Document available from: Ohio
State University, State 4-H
Office, 2120 Pyffe Rd.,
Columbus, Ohio 43210.
Publication intended for:
Member; Junior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making; Personal
growth.

1307

**The green pages 4-H advisors
handbook.**
Ohio State University.
Cooperative Extension Service.
1977. Advisors guidelines for
successful educational
experiences in 4-H. 27 p. :
ill. Document available from:
State 4-H Office, 2120 Pyffe
Road, Columbus, Ohio 43210.
Publication intended for:
Leader. Learning Experience:
Knowledge, skills, practices;
Decision making; Personal
growth; Citizenship and
community.

1308

**The green pages 4-H advisors
program handbook.**
Ohio State University.
Cooperative Extension Service.
1978. 4-H Advisors program
handbook and guide for yearly
plan. 35 p. : ill. Document
available from: State 4-H
Office, 2120 Pyffe Road,
Columbus, Ohio 43210.
Publication intended for:
Leader. Learning Experience:
Knowledge, skills, practices;
Decision making.

1309

Growing overbearing strawberries :. a 4-H fruit growing project.
Utzinger, James D. 1970. As a strawberry plant grower, you will be applying scientific principles to produce some of nature's most complex but extremely fascinating and interesting living things, green plants. 24 p. :. ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning experience: Knowledge, skills, practices; Decision making.

1310

Growing vine crops :. a 4-H vegetable science project.
Utzinger, James. 1974. An interesting group of vegetable plants is the vine crops because of their growth habits, types of fruit and the many uses made of the products. 27 p. :. ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1311

Guide for vice presidents who serve as program committee chairmen.
Ohio State University. Cooperative Extension Service. 1974. Vice presidents guide for conducting meetings. [4] p. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth; Citizenship and community.

1312

Helping at home.
Deneke, Lois M. 1977. This publication focuses on learning to share by helping at home. Good housekeeping tips are included. 19 p. :. ill. Document available from: Ohio State University, State 4-H Office, 2120 Fyffe Rd., Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experiences: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; Personal growth.

1313

Intermediate beef breeding.
Smith, Richard O. Wickersham, T. W. 1973. This publication focuses on management, genetics, the beef carcass and the digestive tract. 31 p. :. ill. Document available from: Ohio State University, State 4-H Office, 2120 Fyffe Rd., Columbus, Ohio 43210. Publication intended for: General; Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

1314

Intermediate 4-H steer feeding.
Reed, Dr. Randall R. Vanstarern, Dr. B. D. 1977. This publication focuses on feed nutrients, starting cattle on feed, prevention and treatment of common diseases, and the genetic background as related to rate of gain. 32 p. :. ill. Document available from: Ohio State University, State 4-H Office, 2120 Fyffe Rd., Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, Earning and saving; Personal growth.

1315

Introductory beef breeding.
Smith, Richard O. 1977. The four main breeds of beef cattle in Ohio are Angus, Charolais, Hereford and Shorthorn. All four breeds have excellent qualities. 19 p. :. ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning experience: Knowledge, skills, practices; Decision making. ; Careers, earning and saving.

1316

Introductory beef breeding.
Smith, Richard O. 1976. This book covers information conserving the starting of a beef project such as cattle selection, nutrition, identifying quality in beef and health and breeding. 19 p. :. ill. Document available from: Ohio State University, State 4-H Office, 2120 Fyffe Rd., Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

1317
Introductory 4-H steer feeding.
 Reed, Randall. 1973. The purpose of the livestock program is to help members develop leadership and character, and grow into more responsible citizens. 32 p. : ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making.

1318
Judging a 4-H outfit.
 Haynes, Orena. Deyo, Norma. 1974. The purpose of the 4-H clothing projects is to help young people to be and feel well-dressed. This involves having a pleasing total look; that is from top to toe. [4] p. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member, Leader, Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1319
Judging dairy cattle.
 Porterfield, Ralph A. 1972. Type should be given consideration in any dairy cattle breeding program. The principle objectives in the development of a good dairy herd are economy of production and a long life of usefulness. 8 p. : ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1320
June bearing strawberries :. producing and marketing.
 Utzinger, James D. 1972. Growing horticultural plants capable of producing high yields of top quality products is a most interesting, challenging and rewarding experience. 15 p. : ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making.

1321
Knit basics.
 Ashcraft, Kathryn. ;. Haynes,

Orena. Deyo, Norma. 1974. Knitting is being used more and more to make fashionable clothing items and decorative accessories for the home. [16] p. : ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member, Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1322
Knit knacks.
 Ashcraft, Kathryn. ;. Haynes, Orena. Deyo, Norma. 1974. You probably have knitted several things to wear and perhaps pot-holders or pillow tops for gifts. You are now ready to learn more about knitting. 14 p. : ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member, Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1323
Leader's guide for light horse selection project.
 Bishop, Robert R. 1975. While teaching horse selection, keep in mind, that you are not educating members to become experienced judges but the project should be the development of members in leadership, citizenship, character, public speaking and judgement abilities. 10 p. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Leader; Senior High Level. Learning experience: Knowledge, skills, practices.; Decision making.

1324
Learning to jump.
 Crumb, Marian. Thomas, Charles M. 1980. Takes the advanced rider through the jumping process, beginning on the flat and working through cavaletti and eventually over hurdles. Includes beginner and advanced horse jumping skills. 20 p. : ill. Document available from: Ohio State University, State 4-H Office, 2120 Fyffe Rd., Columbus, Ohio 43210. Publication intended for: General; Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

1325
Let's explore the outdoors I.
 Ohio State University.

Cooperative Extension Service.
1978. Boys and girls everywhere can be the Daniel Boones and Davy Crocketts of today. There are things to find and places to look where you can find all sorts of things which are new to you. 20 p. : ill. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making.

1326
Let's explore the outdoors II.
Ohio State University. Cooperative Extension Service. 1973. Father Time is reading his book which has the history of land formation throughout the world written on its pages. The different pages represent different rock layers or formations such as limestone, sandstone, shale, and glacial till. 23 p. : ill. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1327
Let's learn to manage money.
Spray, Mabel. 1977. Focuses on how to make plans for using money, how to keep record of the money used, and how to realize how much money is needed for everyday expenses. 19 p. : ill. Document available from: Ohio State University, State 4-H Office, 2120 Pyffe Rd., Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth.

1328
Light horse selection.
Ohio State University. Cooperative Extension Service. 1975. Good horse judging is based on facts, scientific principles and logic. A good practical background is almost a necessity, however. 32 p. : ill. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1329
Light horse selection II.
Sproat, Helen. Hutton, Charles A. 1974. Provides a new challenge for the experienced 4-H horseman, who feels he has mastered his advanced saddle horse or showmanship project. 47 p. : ill. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1330
Livestock judging and evaluation : a beef, swine, & sheep judging guide for 4-H members.
Barnes, Herb. Lee, Cindy. Smith, Dick. 1980. Livestock judging is as important in animal science as livestock feeding, breeding, management, health or marketing. One must be able to appraise an animal accurately and determine its worth. 32 p. : ill. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1331
The magic of microwave.
Wessel, Judith. 1980. Microwave cooking is tailored to our modern life-style. It's convenient and may save energy and dollars. [3] p. : ill. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1332
Managing the producing 4-H vineyard.
Utzinger, James D. 1969. Developing a fine vineyard is a very rewarding and satisfying activity. Each vine which has made good growth since planting should produce several bunches of fruit the third growing season. 18 p. : ill. Document available from: State 4-H Office, 2120 Pyffe Road Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1333

Mini meals :. Food to take and share.
 Gray, Evelyn. ;. McDowell, Joyce. Barlett, Betty. 1974.
 There are many things for the beginning cook to learn.
 Besides mastering techniques such as boiling, baking and beating, he or she much also learn about nutrition, safety, sanitation and food facts. 19 p. :. ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member, Elementary Level.
 Learning Experience: Knowledge, skills, practices; Decision making.

1334
Mrs. G. Arden's Green Scene.
 Arnold, Suzanne. Freeman, Harry. McClanahan, J. C. 1975.
 Some vegetables grow better when the temperatures are cool. That is why you will plant your radish seeds, onion seeds and lettuce seeds right away. But, green beans, tomatoes, and squash like very warm weather and so you must wait to plant them. 27 p. :. ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Elementary Level.
 Learning Experience: Knowledge, skills, practices; Decision making.

1335
Muskrat trapping.
 Rothen, Paul. Stocksdale, Thomas. 1972. Have you ever dreamed you were Daniel Boone or wished you could have been around during the frontier days? Most youth who enjoy the out of doors probably have dreamed such dreams. [9] :. ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member, Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1336
The mysteries of microwave.
 Wessel, Judith. 1980.
 Microwave ovens may be new to you. They do present a whole different way of cooking. For many people, microwave appliances are a bit of a mystery too. 1 v. [unpaged] :. ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member, Junior High Level.
 Learning Experience: Knowledge, skills, practices; Decision making.

1337
The mysteries of microwave.
 Wessel, Judith A. 1981.
 Microwave ovens may be new to you. They present a whole different way of cooking. For many people, microwave appliances are a bit of a mystery. 20 p. :. ill. Document available from: The Ohio State University, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth.

1338
Ohio Birds.
 Mitter, Duane. Stocksdale, Thomas. 1975. Have you ever sat on a stump in a woods as the sun breaks through the clouds, observing the birds of the area scampering on their busy ways?. [32] p. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member, Elementary Level.
 Learning Experience: Knowledge, skills, practices; Decision making.

1339
Ohio 4-H club secretary's record.
 Harquand, James. 1974.
 Secretary's record keeping book for 4-H meeting and get togethers. 35 p. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Junior High Level.
 Learning Experience: Knowledge, skills, practices; Leadership skills; Decision making; Careers, earning and saving; Personal growth; Citizenship and community.

1340
Ohio 4-H Field Crops II :. production record.
 Shepherd, Lawrence N. Schmidt, Walter H. 1975. Soil is the home of plants. The better we understand the soil the greater will be our chances of producing a good yield. 15 p. Document available from: State 4-H Office, 2120 Fyffe Road Columbus, Ohio 43210. Publication intended for: Member; Junior High Level.
 Learning Experience: Knowledge, skills, practices; Decision making.

1341
Ohio 4-H Field Crops I :. production record.

Shepherd, Lawrence. Schmidt, Walter. 1974. Green plants are "factories". The many complex materials found in plants are made from a very few raw materials. 16 p. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making.

1342
Ohio 4-H news :. writing & reporting for teenagers.
Chapman, James P. Ruoff, John. 1978. 48 p. :. ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Senior High Level.

1343
Ohio 4-H treasurer's record book.
Ohio Bankers Association. 1974. Treasurer's recording keeping book. [10] p. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving.

1344
Outdoor adventurer :. fishing for the beginner.
Plymale, Duane. 197-?. Fish have been an important source of food for man ever since recorded time. Next to agricultural products, fish provide the most important source of food in the world. 20 p. :. ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making.

1345
Outdoor adventurer :. fishing for the intermediate.
Plymale, Duane. 197-?. Fishes are a varied group of some 40,000 species, most of which have skeletons of bone. The few hundred species of sharks, rays, and lampreys have skeletons of cartilage. [32] p. :. ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experience:

Knowledge, skills, practices; Decision making.

1346
Outdoor cookery I.
Hall, Pauline G. 1975. This publication teaches how to cook and eat in the great out-of-doors. Knowing what to eat, what to cook, what equipment to take, how to plan and how to make charcoal fires is emphasized. 28 p. :. ill. Document available from: Ohio State University, State 4-H Office, 2120 Fyffe Rd., Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1347
Outdoor cookery II.
Hall, Pauline. 1974. It doesn't matter to whom your outdoor meal is served - family, friends, or club members. If they can truthfully say you have served a tasty meal you have earned a chef's reward. 36 p. :. ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member, Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1348
Plackets & Buttonholes.
Haynes, Orena. ;. Deyo, Norma. 1975. Most garments have one or more closures. Some have buttons and button holes or other visible fasteners. Others have neat, inconspicuous closures called plackets. [28] p. :. ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member, Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1349
Portables, food to take and share.
Gray, Evelyn J. 1974. Covers the preparation, handling and storage of portable foods. Topics include soups and drinks, sandwiches, fruits and vegetables and desserts. 12 p. Document available from: Ohio State University, State 4-H Office, 2120 Fyffe Rd., Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experience:

Knowledge, skills, practices;
Decision making; Personal
growth.

1350

Raising the race horse broodmare and yearling.
Thomas, Duane. Kline, Robert. 1972. Selecting and keeping a race horse broodmare is both educational and fun. Selecting a good quality mare, breed to a quality stallion and raise a quality colt, can be quite profitable. 23 p. : ill. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Senior High Level. Learning experience: Knowledge, skills, practices; Decision making.

1351

Safe use of guns.
Carlson, Bob. Zumfelde, Paul. Speltzer, Margaret. 1978. Beginning with the adoption of gunpowder in Europe in the 13th Century, through the late 1800's when "smokeless powder" appeared, many advancements in firearms were limited due to the need for greater speed and safety. 16 p. : ill. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning experience: Knowledge, skills, practices; Decision making.

1352

The second year vineyard : 4-H grape project.
Uttinger, James D. 1968. Grape plants are by nature climbing plants. The vines normally spread far beyond the place where the trunk comes from the ground. 18 p. : ill. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1353

Seeing livestock : a beef, sheep and swine judging guide for 4-H members.
Barnes, Herb. Smith, Dick. 1976. Livestock judging is as important in animal science as livestock feeding, breeding, management, health and marketing. To be successful breeder or feeder one must be a good judge of livestock. 27 p. : ill. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio

43210. Publication intended for: Member; Junior High Level. Learning experience: Knowledge, skills, practices; Decision making.

1354

Sow and litter.
Barnes, Herbert H. 1977. This publication discusses steps for the proper management of the brood sow before farrowing, and at farrowing time. 7 p. : ill. Document available from: Ohio State University, State 4-H Office, 2120 Pyffe Rd., Columbus, Ohio 43210. Learning Experience: Knowledge, skills, practices; Decision making.

1355

Streams.
Nolte, Byron H. 1973. The thought of streams may remind you of fun - swimming, fishing, canoeing; necessary water supply and waste disposal; terrible floods; the home of aquatic life; or pleasant scenery. 15 p. : ill. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio 43210. Publication intended for: Member ; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1356

Tailoring.
Haynes, Orena. ;. Deyo, Norma. 1976. Tailoring or custom tailoring involves advanced sewing with special techniques including much handwork, pressing and shaping. A tailored garment is individually fitted and permanently shaped to the individual. [12] p. : ill. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio 43210. Publication intended for: Member, Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1357

Tasty meals.
Hall, Pauline. 1976. Emphasis how to cook meals from planned menus. Recipes for oven, broiler, mixed, whole-in-one and cooked freezer meals are given. 31 p. : ill. Document available from: Ohio State University, State 4-H Office, 2120 Pyffe Rd., Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

1358

Teens learn about children.

Blauser, Mrs. Rebecca. 1976. Discusses how teens learn to care for children giving consideration to the physical and emotional needs of the child. 19 p. : ill. Document available from: Ohio State University, State 4-H Office, 2120 Pyffe Rd., Columbus, Ohio 43210. Publication intended for Member; Junior High Level. Learning Experiences: Knowledge, skills, practices; Decision making; Personal growth.

1359

To the ladder.

Ohio State University. Cooperative Extension Service. 1977. There are many things for a beginning cook to learn. Besides mastering techniques such as boiling, baking and beating, he or she also learns about nutrition, safety and sanitation and food facts. 4 p. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio 43210. Publication intended for: Leader. Learning experience: Knowledge, skills, practices; Decision making.

1360

Trail riding.

Kline, Robert. 1978. A competitive trail ride is a ride over predetermined, well marked trails located throughout our country. 19 p. : ill. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1361

Tree planting for 4-H forestry clubs.

Dean, Forest W. 1975. Land that cannot grow food crops profitably usually will produce forest trees. Good land use means making every acre serve the best purpose. 8 p. : ill. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making.

1362

Vegetable gardening I.

Utzinger, James D. 1977. 4-H gardening is a good way to begin learning about plants. Plants are very important because they are used for

food, for making homes and yards pretty, for building houses, and for making certain kinds of medicines. 16 p. : ill. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making.

1363

Water and you.

George, Robert W. 1974. The value of other resources such as land, forests and wildlife (as well as our own human resources) is very dependent upon water. Includes pamphlets. 1 p. : ill. 0 0 a. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1364

Windbreaks.

Everhart, George C. 1973. Establishing a home is one of the basic desires of man. The physical layout and the satisfaction of living in it are closely related. 18 p. : ill. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1365

You and your money.

Spray, Mabel L. Olson, Geraldine I. 1975. This publication focuses on the concepts of good money management habits. 19 p. : ill. Document available from: Ohio State University, State 4-H Office, 2120 Pyffe Rd., Columbus, Ohio 43210. Publication intended for Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Social; Careers, earnings and saving; Personal growth.

1366

4-H aquatic science.

Stocksdale, Thomas. 1975. Fish are lovely to look at, and with a little planning they can be inexpensive, easy, interesting, soothing and educational. 18 p. : ill. Document available from: State 4-H Office, 2120 Pyffe Road, Columbus, Ohio 43210.

Publication intended for:
Member; Elementary Level.
Learning experience:
Knowledge, skills, practices;
Decision making.

1367

The 4-H club president.
Ohio State University.
Cooperative Extension Service.
1974. Club president
guidelines for conducting
meetings. [4] p. Document
available from: State 4-H
Office, 2120 Fyffe Road,
Columbus, Ohio 43210.
Publication intended for:
Member; Junior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making; Personal
growth; Citizenship and
community.

1368

4-H dairy beef feeder project.
Porterfield, Ralph A. 1974.
This publication focuses on
how to feed and care for male
dairy animals from birth to a
weight 400 to 600 pounds and
sealing the animals as a dairy
feeder. Record keeping is
emphasized. 8 p. Document
available from: Ohio State
University, State 4-H Office,
2120 Fyffe Rd., Columbus, Ohio
43210. Publication intended
for General; Member;
Elementary Level. Learning
Experience: Knowledge, skills,
practices; Decision making;
Personal growth.

1369

4-H dairy calf project.
Porterfield, Ralph A. Staubus,
John R. 1975. This publication
emphasizes the importance of
learning to properly feed,
care and manage dairy calves.
15 p. : . ill. Document
available from: Ohio State
University, State 4-H Office,
2120 Fyffe Rd., Columbus, Ohio
43210. Publication intended
for Member; Junior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making; Personal
growth.

1370

4-H dairy heifer project.
Porterfield, Ralph A. Staubus,
John R. 1975. This publication
emphasizes the importance of
feeding and caring for a calf,
a yearling heifer and a
milking cow. 15 p. : . ill.
Document available from: Ohio
State University, State 4-H
Office, 2120 Fyffe Rd.,
Columbus, Ohio 43210.
Publication intended for
Member; Junior High Level.
Learning Experience:
Knowledge, skills, practices;

Decision making.

1371

4-H Dairy leader's guide.
Porterfield, Ralph A. 197-?.
To hold the interest of young
men and women, we should see
that they enjoy themselves and
at the same time, help them to
set and achieve worthy goals.
27 p. : . ill. Document
available from: State 4-H
Office, 2120 Fyffe Road,
Columbus, Ohio 43210.
Publication intended: Leader.
Learning Experience:
Knowledge, skills, practices;
Decision making.

1372

**4-H dairy project, milk -
what's in it for you?.**
Gray, Evelyn. Porterfield,
Ralph A. Rinehart, Kenneth.
1977. This publication
contains many facts about
milk, its ingredients, how it
can be beneficial to health,
plus information on many other
foods that contain dairy
products. [27] p. : . ill.
Document available from: Ohio
State University, State 4-H
Office, 2120 Fyffe Rd.,
Columbus, Ohio 43210.
Publication intended for
Member; Elementary Level.
Leaders guide available.
Learning Experience:
Knowledge, skills, practices;
Decision making.

1373

4-H dairy publication.
Porterfield, Ralph A. 1978.
This publication will assist
the reader in gaining an
overall appreciation for the
production phase of the dairy
industry. It contains dairy
principles and their practical
application. 23 p. : . ill.
Document available from: Ohio
State University, State 4-H
Office, 2120 Fyffe Rd.,
Columbus, Ohio 43210.
Publication intended for
Member; Junior High Level.
Leaders guide available.
Learning Experiences:
Knowledge, skills, practices;
Decision making.

1374

The 4-H dairy veal project.
Porterfield, Ralph A.
VanDemark, Dr. W. L. Taylor,
W. R. Barr, Dr. H. L. Staubus,
Dr. J. R. 1975. Focuses on how
to feed and care for young
male dairy animals. Keeping
records and marketing veal
calves is emphasized. 7 p.
Document available from: Ohio
State University, State 4-H
Office, 2120 Fyffe Rd.,
Columbus, Ohio 43210.
Publication intended for

Member; Elementary Level.
Learning Experiences:
Knowledge, skills, practices;
Decision making; Personal
growth.

1375

4-H ducks and geese.

Malinovsky, Emil. Marquand, James W. 1977. The publication focuses on learning about the care, feeding, management, and profit in producing ducks and geese. 12 p. : ill. Document available from: Ohio State University, State 4-H Office, 2120 Fyffe Rd., Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making.

1376

4-H egg production.

Marquand, James W. 1977. This publication focuses on working with livestock, learning to take responsibility, learning about selling, earning, spending money and how to save for future goals. 15 p. : ill. Document available from: Ohio State University, State 4-H Office, 2120 Fyffe Rd., Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making.

1377

The 4-H feeder calf project.

Smith, Richard O. 1976. This publication emphasizes how to take the most out of beef calves produced on home farms. Tips for feeding, sheltering, and pasturing are included. [15] p. Document available from: Ohio State University, State 4-H Office, 2120 Fyffe Rd., Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

1378

4-H first aid.

Matson, Hollis. 1974. First Aid is the immediate, temporary care of a sick or injured person until a doctor comes. Most people are willing to help when some one is hurt. 11 p. : ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1379

4-H guinea pig I.

Marquand, James W. 1976. Discusses tips on caring for the guinea pig. Covers selection, breeding, handling, feeding, watering and how to raise a litter. 15 p. : ill. Document available from: Ohio State University, State 4-H Office, 2120 Fyffe Rd., Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experiences: Knowledge, skills, practices; Decision making.

1380

4-H horse production.

Hutton, Charles A. 1975. This publication discusses the principles of scientific feeding, breeding and management necessary in raising horses. 24 p. : ill. Document available from: Ohio State University, State 4-H Office, 2120 Fyffe Rd., Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1381

4-H horse science, Unit I.

Huff, Arden. 1974. We hope that you find fun and recreation in the joy of learning. It is hoped that you will continue to improve upon the skills of horsemanship you now possess. 34 p. : ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning experience: Knowledge, skills, practice.; Decision making.

1382

4-H market goat project.

Porterfield, Ralph A. 1979. This publication is designed for the 4-H member to gain experience and knowledge in proper feeding, management, and other responsibilities associated with owning a market goat. 21 p. : ill. Document available from: Ohio State University, State 4-H Office, 2120 Fyffe Rd., Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

1383

4-H news reporter.

Frisbee, Howard E. Mortenen, Don H. 1976. Through the

stories you give to your newspaper and radio station, you can let everyone in the community know that your club is learning by doing - and enjoy the experience. 3 p. :. ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning experience; Knowledge, skills, practices; Decision making.

1384

4-H photography member's record book.
Ohio State University. Cooperative Extension Service. 1974. Members individual record book. 32 p. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making.

1385

4-H pigeon project :. squab production.
Malinovsky, Emil. Marquand, James W. 1975. Pigeons are adaptable to nearly all conditions. They may be raised in rural, suburban or urban areas. They are easy to raise, inexpensive to maintain and require very little room. 11 p. :. ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Member; Junior High Level. Learning experience: Knowledge, skills, practices; Decision making.

1386

4-H pigion project fancy or racing.
Ulrich, Allen. 1975. This publication focuses on raising fancy and racing pigeons. 8 p. :. ill. Document available from: Ohio State University, State 4-H Office, 2120 Fyffe Rd., Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making.

1387

4-H pork production.
Barnes, Herbert. 1976. This publication focuses on how to produce high quality pork and how to manage and show pork products. 20 p. :. ill. Document available from: Ohio State University, State 4-H Office, 2120 Fyffe Rd., Columbus, Ohio 43210.

Publication intended for: General; Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making.

1388

4-H poultry production I.
Marquand, James W. 1975. This publication covers the principles of nutrition, and the importance of recordkeeping. 15 p. :. ill. Document available from: Ohio State University, State 4-H Office, 2120 Fyffe Rd., Columbus, Ohio 43210. Publication intended for: Member; Elementary Level. Learning Experience: Knowledge, skills, practices; Decision making.

1389

4-H Strawberry Project :. leaders' guide.
Uttinger, James D. 1972. 4-H Strawberry projects are designed to provide members with opportunities to learn principles of plant production by growing strawberry plants. 8 p. :. ill. Document available from: State 4-H Office, 2120 Fyffe Road, Columbus, Ohio 43210. Publication intended for: Leader; Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making.

PENNSYLVANIA

1390

Consumerama - consumer bowl.
Kohl, Joye E. 1971. This is one of four consumer education leaflets designed for 4-H members and other youth. It outlines procedures for planning and conducting a consumer bowl (quiz game). [2] p. :. ill. Document available from: Sales Supervisor, 230 Agricultural Administration Building, University Park, Pennsylvania 16802. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Decision making; Social; Personal growth.

1391

Consumerama - consumer education presentation.
Kohl, Joye E. 1971. This is one of four consumer education leaflets designed for 4-H members and other youth. It covers essential factors in preparing and staging a public presentation. [2] p. :. ill. Document available from: Sales Supervisor, 230 Agricultural Administration Building, University Park, Pennsylvania

16802. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1392

Consumerana - consumer judging.

Kohl, Joye E. 1971. This is one of four consumer education leaflets designed for 4-H members and other youth. It focuses on the principles and steps involved in judging. [4] p. : ill. Document available from: Sales Supervisor, 230 Agricultural Administration Building, University Park, Pennsylvania 16802. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1393

Consumerana - planathon.

Kohl, Joye E. 1971. This is one of four consumer education leaflets designed for 4-H members and other youth. It emphasizes individual and team planning in the decisionmaking process. [2] p. : ill. Document available from: Sales Supervisor, 230 Agricultural Administration Building, University Park, Pennsylvania 16802. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth.

1394

Focus on leadership :. program ideas add zip and zest (lesson 5).

Lewis, Robert B. 1971. This is the fifth unit in a sequence of five lessons of a correspondence course for 4-H leaders. It focuses on supplemental learning activities. 4 p. : ill. Adapted from Ohio. Document available from: Sales Supervisor, 230 Agricultural Administration Building, University Park, Pennsylvania 16802. Publication intended for: Leader. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth; Citizenship and community.

1395

Focus on leadership :. tools and techniques (lesson 3).

Lewis, Robert B. 1971. This is the third unit in a sequence of five lessons of a correspondence course for 4-H leaders. Several teaching methods are presented. 4 p. : ill. Adapted from Ohio. Document available from: Sales Supervisor, 230 Agricultural Administration Building, University Park, Pennsylvania 16802. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices; Decision making; Social; Personal growth; Citizenship and community.

1396

Focus on leadership :. you and 4-H - what it's all about (lesson 1).

Lewis, Robert B. 1971. This is the first unit in a sequence of five lessons of a correspondence course for 4-H leaders. It provides an overview of 4-H with emphasis on the role of adult volunteers. 3 p. : ill. Adapted from Ohio. Document available from: Sales Supervisor, 230 Agricultural Administration Building, University Park, Pennsylvania 16802. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth; Citizenship and community.

1397

Focus on leadership :. your club has meetings (lesson 4).

Lewis, Robert B. 1971. This is the fourth unit in a sequence of five lessons of a correspondence course for 4-H leaders. The contents include planning and conducting meetings. 4 p. : ill. Adapted from Ohio. Document available from: Sales Supervisor, 230 Agricultural Administration Building, University Park, Pennsylvania 16802. Publication intended for: Leader. Learning Experience: Knowledge, skills, practices; Family; Decision making; Social; Personal growth; Citizenship and community.

1398

Focus on leadership :. your leadership team (lesson 2).

Lewis, Robert B. 1971. This is the second unit in a sequence of five lessons of a correspondence course for 4-H leaders. It highlights different types of leaders in their roles of helping youth. 4 p. : ill. Adapted from Ohio. Document available from: Sales Supervisor, 230 Agricultural Administration Building, University Park, Pennsylvania 16802.

Publication intended for:
Leader. Learning Experience:
Knowledge, skills, practices;
Decision making; Social;
Personal growth; Citizenship
and community.

1399

Game--a formula for fun.
Reyburn, Jerry H. This
bulletin, for members serving
as recreational leaders in 4-H
clubs, has instructions for a
variety of leisure-time
activities for meetings and
other group events. Member
material. Publication intended
for elementary and senior high
level.

1400

**My future is what I make it :.
Leader's guide.**
Harr, P. Glenn. Abedon, David.
Dealhousen, Brenda. Heinsohn,
Anne L. Reed, Eunice P.
Uhlinger, Susan. 1977. This
guide, designed for adult
leaders, accompanies a career
education manual for 4-H
members. It includes
objectives and suggestions for
presenting seven meeting
topics. 27 p. : ill. Document
available from: Sales
Supervisor, 230 Agricultural
Administration Building,
University Park, Pennsylvania
16802. Publication intended
for: Leader. Learning
Experience: Knowledge, skills,
practices; Decision making;
Social; Careers, earning and
saving; Personal growth;
Citizenship and community.

1401

**My future is what I make it :.
member's guide.**
Harr, P. Glenn. Abedon, David.
Dealhousen, Brenda. Heinsohn,
Anne L. Reed, Eunice P.
Uhlinger, Susan. 1979. This is
an intermediate career
education manual designed
primarily for early
adolescents (junior high age
groups). 18 p. : ill.
Document available from: Sales
Supervisor, 230 Agricultural
Administration Building,
University Park, Pennsylvania
16802. Publication intended
for: Member; Junior High
Level. Leader's guide
available. Learning
Experience: Knowledge, skills,
practices; Family; Decision
making; Careers, earning and
saving; Personal growth.

SOUTH DAKOTA

1402

Beef.
O'Connell, Jim. 1975. Beef
Project Member - Leader Guide
on things to learn - things to
do for beginners, intermediate

and senior 4-H members.
Suggested plans for marketing
on breeding are included. 6 p.
: ill. Document available
from: State 4-H Office, Scobey
Hall, South Dakota State
University, Brookings, South
Dakota 57707. Publication
intended for: Member; Leader;
Elementary, Junior and Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Decision making;
Careers, earning and saving.

1403

Breeds of sheep.
Miller, Herley. 1976. Provides
information on eight major
breeds of sheep, 4 wool type,
2 mutton and 2 dual purpose.
Includes the Rambouillet, the
Columbia, the Corriedale, the
Targhee, the Hampshire, the
Suffolk, the Dorset and the
Montadale. [4] p. : ill.
Document available from: State
4-H Office, Scobey Hall, South
Dakota State University,
Brookings, South Dakota 57707.
Publication intended for:
Member Material; Leader
Material; Elementary, Junior
and Senior High Level.
Learning Experience:
Knowledge, skills, practices.

1404

Conservation.
Nelson, Kenneth L. 1975.
Things to do in nine areas of
natural resource conservation,
soil, water, range,
irrigation, wildlife, fishing,
song birds. Topics include
tree planting methods, game
bird predators, and fishing
equipment. 10 p. : ill.
Document available from: State
4-H Office, Scobey Hall, South
Dakota State University,
Brookings, South Dakota 57007.
Publication intended for:
Member; Leader; Elementary,
Junior and Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making; Careers,
earning and saving.

1405

Exhibiting garden vegetables.
Martin, Dean M. Prasher, Paul.
Nelson, Kenneth L. 1977. How
to select, and prepare
vegetables and fruit for
exhibit purposes which would
be the same process as for
preservation. 11 p. : ill.
Document available from: State
4-H Office, Scobey Hall, South
Dakota State University,
Brookings, South Dakota 57707.
Publication intended for
Member; Elementary, Junior and
Senior High Level. Learning
Experience: Knowledge, skills,
practices; Decision making.

1406

Focus on leadership.

Gohring, Henrietta. 1975. Nine subject areas in which all 4-H leaders need training; what is 4-H, organizing a club, understanding youth, teaching methods, sources of help. [32] p. : ill. Document available from: State 4-H Office, Scobey Hall, South Dakota State University, Brookings, South Dakota 57707. Publication intended for: Leader Material; Staff Material. Learning Experience: Leadership skills.

1407

Petroleum power.

Nelson, Kenneth L. 1975. Member-leader guide on things to learn and do in tractor, small engine, lawn and garden equipment, motorbikes, snowmobiles, outboard motors. Includes listings of lawn and garden equipment, how to use tools and safety rules. 15 p. : ill. Document available from: State 4-H Office, Scobey Hall, South Dakota State University, Brookings, South Dakota 57707. Publication intended for: Member; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; Personal growth; Citizenship and community.

1408

Poultry and related projects.

Plumart, Phillip E. 1976. Things to learn and do in production of chickens, turkeys, ducks, geese, game birds, pigeons. References included. [8] p. : ill. Document available from: State 4-H Office, Scobey Hall, South Dakota State University, Brookings, South Dakota 57707. Publication intended for: Member Material; Leader Material; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving.

1409

Safety.

Ollenberg, Ella. 1975. Member-leader guide on safety projects to learn and do on month to month basis. [7] p. : ill. Document available from: State 4-H Office, Scobey Hall, South Dakota State University, Brookings, South Dakota 57707. Publication intended for: Member Material; Leader Material; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Personal growth; Citizenship

and community.

1410

Self-determined project.

Gohring, Henrietta. 1977. Member-leader guide on objectives, planning methods, goal development and evaluation of Self-Determined 4-H Project. [6] p. : ill. Document available from: State 4-H Office, Scobey Hall, South Dakota State University, Brookings, South Dakota 57707. Publication intended for: Member Material; Leader Material; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; Personal growth; Citizenship and community.

1411

Self-determined project.

Gohring, Henrietta. 1977. How to select, plan and evaluate a 4-H project of your own choice that is different from a suggested list. Includes listings of sources of help and a project evaluation. 8 p. Document available from: State 4-H Office, Scobey Hall, South Dakota State University, Brookings, South Dakota 57707. Publication intended for: Member Material; Leader Material; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Family; Decision making; Careers, earning and saving; Personal growth; Citizenship and community.

1412

Sheep.

Miller, Herley. 1975. Member-leader guide on sheep production, things to learn and do for beginner, Junior and Senior members. [6] p. : ill. Document available from: State 4-H Office, Scobey Hall, South Dakota State University, Brookings, South Dakota 57707. Publication intended for: Member Material; Leader Material; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Careers, earning and saving.

1413

Sheep showmanship.

Miller, Herley. 1979. Member-leader guide on sheep showmanship objectives, scorecard and goals of judge. [1] p. : ill. Document available from: State 4-H Office, Scobey Hall, South Dakota State University, Brookings, South Dakota 57707. Publication intended for:

Member; Leader Material;
Elementary, Junior and Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Decision making;
Personal growth.

1414

South Dakota 4-H engineering event, tractor operation contest, automotive contest.
Durland, G. R. 1979. Detailed instruction for planning and conducting tractor operations and automotive contest on club, county, state level. Entry form, written and Practical Examinations and scoresheets are included. 23 p. Document available from: State 4-H Office, Scobey Hall, South Dakota State University, Brookings, South Dakota 57707. Publication intended for: Member; Leader; Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Careers, earning and saving; Personal growth; Citizenship and community.

1415

Swine showmanship.
Kortan, L. J. 1979. Member-leader guide on swine showmanship objectives, scorecard and goals of judge. [1] p. : ill. Document available from: State 4-H Office, Scobey Hall, South Dakota State University, Brookings, South Dakota 57707. Publication intended for: Member; Leader Material; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

1416

A 4-H guide in selecting and preparing birds for show.
Plumart, Phillip E. 1979. Guide for selecting and preparing chickens to show in egg production, meat production or standard breed classes. [1] p. Document available from: State 4-H Office, Scobey Hall, South Dakota State University, Brookings, South Dakota 57707. Publication intended for: Member Material; Leader Material; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Leadership skills; Decision making.

1417

4-H photography, suggestions for exhibiting.
Sudlow, Leland. 1977. Suggestions on how to prepare,

mount and display pictures for exhibiting purposes at different age levels and suggest subjects. [1] p. Document available from: State 4-H Office, Scobey Hall, South Dakota State University, Brookings, South Dakota 57707. Publication intended for: Member; Leader; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Leadership skills; Decision making.

1418

4-H rodeo, rules & regulations.
Powell, John. Nies, Gary. 1980. General Rules, regulations and events for 4-H/youth rodeos. Includes information on Judging, rules, and Point system. Each type of Riding and Roping technique is discussed. 19 p. Document available from: State 4-H Office, Scobey Hall, South Dakota State University, Brookings, South Dakota 57707. Publication intended for: Member; Leader; Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices; Decision making; Social; Careers, earning and saving; Personal growth; Citizenship and community.

VERMONT

1419

Clothing leaders guide, level 2.
Strassburg, Kathleen. 1977. This is the second level in a series of three leader manuals designed by a Northeast Committee to assist early teens in their textiles and clothing learning experiences. It builds upon knowledge and skills introduced in Level 1. Extension Service, University of Vermont, Morrill Hall, Burlington, Vermont 05405. 88 p. in various pagings : ill. Is part of a sequence. Publication suitable for: General. Leader material. Publication intended for adult level.

1420

4-H textiles & clothing program, level 1, leaders guide.
Strassburg, Kathleen. 1976. This is the first level in a series of three leader manuals prepared by a Northeast Committee to assist 9 to 11-year olds in their textiles and clothing learning experiences. Six primary topics are featured. Extension Service, University of Vermont, Morrill Hall, Burlington, Vermont 05405. 40 p. in various pagings : ill.

Is part of a sequence.
Publication suitable for:
General. Leader material.
Publication intended for adult
level.

1421

**4-H textiles and clothing
program, level 3 :. design a
project for leaders and
members.**
Strassburg, Kathleen.
Extension Service, University
of Vermont, Morrill Hall,
Burlington, Vt. 05405. 6. Part
of a sequence. Publication
suitable for: General. Type of
material: Member and leader.
Publication intended for
senior high and adult levels.

WEST VIRGINIA

1422

Archery I.
Wade, J. Frank. Williams,
Charles. 1967. This manual,
designed for 4-H members and
other youth, covers the
fundamentals of using bows and
arrows. 21 p. :. ill. Document
available from: 4-H Youth
Development Division, 216
Knapp Hall, West Virginia
University, Morgantown, West
Virginia 26506. Publication
intended for: Member,
Elementary, Junior and Senior
High Levels. Learning
experience: Knowledge, skills,
practices; Decision making;
Personal growth.

1423

I decide.
Snyder, Glenn Jr. Dvorak,
Charles. Weiss, Nancy. 1977.
This manual presents basic
information for older 4-H
members interested in creating
their own learning
experiences. 6 p. :. ill.
Document available from: 4-H
Youth Development Division,
216 Knapp Hall, West Virginia
University, Morgantown, West
Virginia 26506. Publication
intended for: Member; Senior
High Level. Learning
Experience: Knowledge, skills,
practices; Family; Decision
making; Careers, earning and
saving; Personal growth.

1424

I decide - advisor's guide.
Dvorak, Charles F. Snyder,
Glenn. Weiss, Nancy. 1977.
This leader's guide
accompanies a manual for older
4-H members on the principles
and steps involved in
conducting self-determined
projects. [3] p. Document
available from: 4-H Youth
Development Division, 216
Knapp Hall, West Virginia
University, Morgantown, West
Virginia 26506. Publication

intended for: Leader. Learning
Experience: Knowledge, skills,
practices; Decision making;
Careers, earning and saving;
Personal growth.

WISCONSIN

1425

**Adopt-a-friend, guide for
members, parents and leaders.**
Williams, Roger T. Best, Marie
L. 1976. The adopt-a-friend
project is designed to bring
together persons having
special needs and concerned
youth desiring to be of help. •
These special needs can be
social, emotional, and
physical needs of the ill,
handicapped, lonely, elderly,
and/or retarded. 8 p. :. ill.
Document available from: 4-H
Youth Development, Lowell
Hall, 610 Langdon Street,
Madison, Wisconsin 53706.
Publication intended for:
Member, Junior and Senior High
Levels. Learning experience:
Knowledge, skills, practices.
Social. Personal growth.
Citizenship and community.

1426

**Adventures in dairyland :. for
the leader.**
Kaiser, Danny. 1981. This
guide suggests projects
resources, ideas for effective
learning experiences, working
with 4-H'ers, involving youth
leaders, and planning the
project year. A series of
suggested activities and tours
are included. 28 p. :. ill.
Document available from: 4-H
Youth Development, Lowell
Hall, 610 Langdon Street,
Madison, Wisconsin 53706.
Publication intended for:
Leader; Adult Level. Learning
Experience: Knowledge, skills,
practices.

1427

**Adventures in dairyland :. for
the member & family.**
Kaiser, Danny. Lee, Barbara.
1980. This project is intended
primarily for members who do
not live on a dairy farm and
covers dairy cattle, dairy
breeds, and dairy products.
[6] pieces :. ill. Document
available from: 4-H Youth
Development, Lowell Hall, 610
Langdon Street, Madison,
Wisconsin 53706. Publication
intended for: Member;
Elementary Level. Learning
Experience: Knowledge, skills,
practices.

1428

Adventures in leathercraft.
Kuemmerlein, Kenneth R. 1967.
Accent is given to utilizing
the natural beauty of leather
in this project, rather than

ornate design and unrestrained tooling and carving. Contains ideas for many different structural patterns. 30 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Elementary, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

1429

Adventures in leathercraft, leader's guide.
Kuemmerlein, Kenneth R. 1967. This guide for leather craft leaders explains project objectives and the leader's role. It lists tools and materials needed for training, suggests articles to make, meeting topics, and teaching suggestions. 7 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices.

1430

Adventures with insects.
Gojmerac, Walter L. 1966. This manual covers insect characteristics, metamorphosis, identification, classification, control, collection, mounting, and preservation. Suggested project activities are included. 25 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member. Leaders's guide available. Publication intended for: Elementary level. Learning experience: Knowledge, skills, practices; Careers, earning and saving.

1431

Adventures with insects, leaders guide.
Gojmerac, Walter L. 1966. This guide primarily gives suggestions for project training meetings - first meeting and by seasons - spring, summer and late summer. It lists suggested visuals and references. 3 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison Wisconsin 53706. Publication intended for: Leader. Learning experience: Knowledge, skills, practices.

1432

Adviser, the 4-H youth leadership series.
Lueder, E. J. Binder, Karen L. 1975. This is the last of four 4-H youth leadership units and is intended for both adult and teen leaders guiding 4-H youth in the leadership series. 12 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices; Leadership skills.

1433

Apprentice, the 4-H youth leadership series.
Lueder, E. J. Binder, Karen L. 1976. This is the second of four 4-H youth leadership units. Emphasis is on various types of 4-H meetings. 11 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Junior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Leadership skills.

1434

The attic and the basement, 4-H history and heritage activity.
Joseph, Matthew L. 1974. This guide gives suggestions for leaders of 4-H groups in search of family accumulations and treasures of the past to get the most from participating in this activity. 5 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience: Family.

1435

Bantams.
Skinner, John L. 1970. Included are Bantam characteristics, breeds and varieties, getting started, selection and mating, incubation, raising young, feeding, housing, diseases, parasites, fair classes, selecting, fitting, and showing. 17 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

1436

Beginner, the 4-H youth leadership series.

Lueder, E. J. Binder, Karen L. 1975. This is the first of four 4-H youth leadership units. It covers the why, what, and how; planning, getting help and teaching+ working with adult and teen leaders. 7 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Elementary and Junior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Leadership skills.

1437

Blocking printing.

Graft, Jane. Kuennerlein, Kenneth. 1966. This is a colorful "how to" publication on block printing with numerous ideas and illustrations of design forms using natural materials, items, and objects. 25 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member and Elementary, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

1438

Bluebird trails and nest boxes for cavity nesting birds.

Holz, Alfred O. 1965. While the main focus is on bluebirds, this publication contains plans for constructing and erecting three different sizes of nest boxes (birdhouses) according to size of birds. [16] p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Elementary Level. Learning Experience: Knowledge, skills, practices.

1439

Care of the mare and foal, 4-H horse and pony program.

Antoniewicz, Ray. 1974. This publication deals with conditioning the pregnant mare, preparation for foaling, care at foaling, and feeding the nursing mare. 9 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

1440

Clothes and you, unit 2, 4-H clothing project.

Landry, Lenore. Keske, Eldora. 1973. This publication is patterned around "clothing and self" and includes project planning, fabrics, patterns, design, construction, care, and related personal health care. 29 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Personal growth.

1441

Clothing unlimited, unit 3, 4-H clothing project, leader's guide.

Landry, Lenore L. Keske, Eldora E. 1977. This guide contains a letter to leaders on the philosophy and objectives of the project and a suggested project meeting guide by two levels of member experience and ability. 19 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Leader, Senior High Level. Learning experience: Knowledge, skills, practices.

1442

Clothing unlimited, unit 3, 4-H clothing project, member's guide.

Landry, Lenore L. Keske, Eldora E. 1977. This unit covers: 1) being me in my clothes; 2) making the most of my appearance; 3) appearance and getting a job; and 4) elements of design, on two levels of member experience and ability. 28 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Personal growth.

1443

Color, texture, design in space, a basic manual for the 4-H home improvement program.

Hoffman, Gertrude. 1966. This 4-H home furnishings manual covers the basics of color, texture, design and space and their application to home living. With each subject of study is a series of things to do, divided into beginner, intermediate, and advanced. 15 p. :. ill. Document available

from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

1444

Color, texture, design in space, leader's guide. Sperry and Hutchinson Company. 1966. This guide contains general leadership guidelines, preparation for and conducting meetings, evaluating members based on what they are expected to do, references, resources and suggestions for tours, demonstrations, and exhibits. 11 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience: Knowledge, skills, practices.

1445

Community biography, a 4-H history and heritage activity. Joseph, Matthew L. 1974. The purpose of this activity is for the group to learn more about those people who have in the past contributed their energies and enthusiasms to the betterment of the community. 4 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Citizenship and community.

1446

Community development, youth in action, tools for leaders. D'Onofrio, Barbara. Mackey, J. Mitchell. 1975. This publication gives guidelines for a successful community development program; recognizing, identifying, and creating awareness of community problems; values and social systems; identifying community leaders; how to interview; and publicizing your program. 19 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Leadership skills; Citizenship and community.

1447

Creative dance for dramatic activity.

Brown, Elizabeth. Buse, Carol. 1972. This is a guide for leading a creative dance drama activity - includes the nature of creative dance, elements of movement, use of kinesthetic sense, and suggestions for teaching lessons. 9 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

1448

Creative design with wood. Barquest, Glenn. Kuenmerlein, Kenneth. Meyer, Ronald. Stith, Dick. 1973. This publication deals with original wood carving and shaping, including three dimensional forms. Also included is information on needed tools, kinds of wood, and wood finishes. 23 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

1449

Cross-country skiing, self-taught, enjoying Wisconsin's winter fields and woods.

Pease, Jim. 1979. Beside teaching how to cross-country ski, publication covers selection and preparation of equipment and clothing and trail courtesies. Publication includes identification of shrubs, trees, and animal tracks observed on the trail. 29 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member. Publication intended for: Junior High Level. Learning Experience: Knowledge, skills, practices.

1450

Design in art and crafts. Kuenmerlein, Kenneth. 1970. This is a well illustrated manual to teach basic design - the process of developing an idea or concept into visual shape and form, using materials. Covers the elements of line, shape, and form. 29 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills,

practices.

1451

Designs for living, homes for living, youth project, intermediate.

Harle, Kathryn. 1973. This project includes an in-depth study of design as related to the home, some on exterior, but primarily on interior decoration, arrangement, and storage. 44 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making.

1452

Designs for living, homes for living, youth project, intermediate, leader's guide.

Harle, Kathryn A. 1973. This guide includes developmental characteristics of twelve to fourteen year olds, has guide questions for project evaluation with members, and suggested outlines for project meetings. 23 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices. Leadership skills.

1453

Drama for youth, drama director's handbook.

O'Brien, Helen. 1972. This handbook for drama directors covers play selection, planning, casting, blocking, make-up, rehearsals, stage settings, properties, special effects, publicity, and business management. 9 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

1454

Drama for youth, play list.

O'Brien, Helen. 1978. The purpose of this publication is to assist drama directors and drama groups select plays suited to the needs and nature of the drama group. 28 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706.

Publication intended for: Leader and Senior High Level. Learning experience: Decision making.

1455

Drama for youth, puppetry.

O'Brien, Helen. 1973. Included in this circular are kinds of puppets and how to make them accessories, making a stage, scenery, developing characters, and developing story plots. 8 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

1456

Drama for youth, suggestions for young actors.

O'Brien, Helen. 1972. This single page flyer lists suggestions for an effective performance, responsibilities of the actor, being sensitive to people, and the importance of enjoying what you are doing. [1] p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Personal growth.

1457

Drama for youth, the costume box.

O'Brien, Helen. 1973. The purpose of this publication is to aid drama groups build a collection of basic tops, skirts, and drapes as well as accessories. 5 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices.

1458

Drama for youth, Wisconsin's 4-H drama Program.

O'Brien, Helen. 1972. This publication describes different forms of dramatic activities that exist. An outline of the drama leader role and a list of suggested printed resources are included. 7 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street,

Madison, Wisconsin 53706.
Publication intended for:
Member and Elementary, Junior
and Senior High Levels.
Leader's guide available.
Learning experience:
Knowledge, skills, practices.

1459

Drama for youth, 4-H drama project.
O'Brien, Helen. 1972. Purpose of this publication is to provide an opportunity for individual members to enroll in drama as a 4-H project. It suggests ideas for things they might do in the project. 5 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

1460

Drawing and painting.
Kuennerlein, Kenneth R. 1973. This publication covers basics for anyone learning to paint or draw. It includes instructions and illustrations for several modes of drawing; treats paints, painting, and use of color - both watercolor and acrylic. 32 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

1461

Electric heat and power, unit 4, 4-H electricity project.
Brooks, Lynndon A. 1964. This unit covers electric heating and refrigeration, appliances, and electrical load study. The motor portion includes types of electric motors, motor troubles, their use, care, and servicing. 21 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for member. Publication intended for junior high level, senior high level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

1462

Electricity in the home, unit 2, 4-H electricity project.
Brooks, Lynndon A. 1969. This unit deals with the source of

high voltage electricity, meters, circuits, fuses, wires, cables, cords, plugs, switches, and connectors. Items to make include a test lamp, trouble light, extension cord, and circuit chart. 32 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for member. Publication intended for junior high level, senior high level. Leader's guide available. Learning Experience: Knowledge, skills, practices ; Decision making.

1463

Energy conservation activity, 4-H leader's guide.
Mackey, J. Mitchell. Pierick, Wilfred J. 1978. This guide uses a community development approach to a club energy conservation activity telling how to select, develop a plan, and implement the activity. It suggests 21 energy conservation activities and some ideas for field trips, demonstrations, and talks. 16 p. : ill. Document available from: 4-H Youth & Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

1464

Enter the clowns.
O'Brien, Helen. 1976. This circular deals with clowning as a 4-H activity. It tells what clowning is, reasons for clowning, and about deciding what kind of clown to be. 13 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

1465

Exploring - fun ideas for the 4-H'er and family.
Wisconsin Cooperative Extension Service. 1976. Consists of folder with four large posters for members to complete on self, others, 4-H, and their environment. Also has letter directed to member's family. 1 pamphlet. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Family; Personal growth;

Citizenship and community.

1456

Exploring electricity, unit 1, 4-H electricity project.

Brooks, Lynndon A. 4-H. This beginning unit deals with basics of low voltage electricity including static electricity, magnetism, and batteries. Items to make include a buzzer, question board, and toy motor. 17 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Elementary, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

1467

Exploring guidebook for leaders.

Wisconsin Cooperative Extension Service. 1976. This is the leader's guide for the 4-H exploring project. It defines objectives, major areas, gives leadership tips, and suggests group activities and special activity days. 27 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices. Family. Personal growth. Citizenship and Community.

1468

Exploring water.

Entine, Lynn B. 1979. This guide includes a discussion of the prevalence and importance of water, the water cycle, things that live in water, man's use of water, and water pollution. Many suggested water related activities are included. 37 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

1469

Exploring water, leader guide.

Entine, Lynn B. 1979. This guide provides a suggested general meeting format and suggestions and materials needed at project meetings for carrying out the activities included in each of the major content areas of Unit 1. 13 p. : ill. Document available

from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience: Knowledge, skills, practices.

1470

Family camping.

Brick, Donald B. Weiman, Dave. 1979. This guide provides general camping information, such as where to go, selecting a site, selecting a shelter, equipment to bring, cooking, clothing, lighting, and first aid. A resource list is included. 13 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Family.

1471

Farm fur management and harvest project.

Ellarson, Robert S. 1956. This project specifically involves the trapping of fur bearing animals but includes knowing more about them, about fur resources and fur resource management. [2] : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member. Publication intended for: Elementary level. Learning experience: Knowledge, skills, practices.

1472

Farm game.

Ellarson, Robert S. 1975. This project treats game as a "farm crop" and encourages improving the environment for game to enhance the harvest. Providing wildlife cover and learning to know farm game animals and how they live are major activities. 3 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member. Publication intended for: Elementary level. Learning experience: Knowledge, skills, practices.

1473

Fish management project - learning more about conservation, wildlife management.

Ellarson, Robert S. 1974. A major goal of this project is the improvement of the fish habitat or water resources of the 4-H member's home farm.

Other activities include minnow pond construction and operation and taking a creel census. 4 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices.

1474

Fitting and showing dairy cattle.

Dickson, David P. 1977. In addition to basic preparation for show, this publication details final touches before the show. In the ring skills include leading, posing, and handling yourself. 25 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

1475

Food preservation, a guide for members, parents, and leaders.
Dunn, Charlotte. Davies, Elizabeth C. 1976. This guide consists primarily of learn and do suggestions for 4-H food preservation members, with resource lists and guides on where and how to find answers. 9 p. Document available: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Junior and Senior High Level. Learning experience: Knowledge, skills, practices. Family.

1476

Fun with clothing.

Landry, Lenore. Keske, Eldora. 1980. Major parts of this manual include learning about and using hand cutting and sewing tools and the sewing machine. Also covered are fabrics - characteristics, choosing, and buying; and good grooming. 32 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

1477

Fun with clothing, things to make.

Landry, Lenore. Keske, Eldora.

1980. This publication contains instructions and illustrations for making about twenty suggested articles for unit one of the 4-H clothing project. It also has three sewing machine "driving tests". 45 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Elementary Level. Learning experience: Knowledge, skills, practices.

1478

Fun with the landscape, home ground improvement project guide for members and leaders.
Ziegler, George. 1970. This guide includes the objectives of the landscaping project and opportunities for learning and doing by member age levels. Publication references are listed for four home grounds units: 1) landscape, 2) lawns, 3) shrubs and trees, and 4) flowers. 4 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Elementary Level. Learning Experience: Knowledge, skills, practices.

1479

Games for meetings and parties.

Heller, John H. 1975. This circular is designed to help recreation leaders provide a stimulating social program for group meetings and parties. Covers get-acquainted games, limited and no equipment games, and relays. 17 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader, senior high level. Learning experience: Knowledge, skills, practices ; Social.

1480

Games to learn by, clothing unlimited.

Landry, Lenore L. Keske, Eldora E. 1977. This publication is a collection of group games for leaders to use with members of the third unit of 4-H clothing. 29 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices; Personal growth.

1481

Garden and vegetable crops, project guide for members and leaders.

Combs, C. B. Schoenemann, John A. 1974. This guide primarily lists opportunities for doing and learning in the garden project. In addition, it lists project objectives, references, and visuals, and a "note to parents". 8 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Elementary Level. Learning Experience: Knowledge, skills, practices.

1482

Genealogy, 4-H history and heritage activity.

Joseph, Matthew L. Rosen, David. 1974. This guide covers standard approaches to tracing family roots - family records and papers, the family tree, and public records. A list of suggested books is included. 6 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Family.

1483

Getting it done, guide to 4-H organizational leadership.

Halpin, Barbara. 1977. This guide covers 4-H organizational leadership roles, involving others in the club and community, and relating to the county 4-H program. 15 p. : . Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience: Leadership skills.

1484

Getting to know the birds.

Stackler, Susan. Pease, Jim. Ellarson, Robert. 1978. This project involves the observation and identification of birds; learning about their characteristics, habits, foods, and behavior. An additional element is the providing of shelves, houses, and bird feeders to attract them. 24 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member. Publication intended for: Elementary level. Learning experience: Knowledge, skills, practices.

1485

Give a talk -- selecting, preparing, and giving a 4-H speech.

Pierick, Wilfred J. 1971. The title of this publication is quite descriptive of contents. The three parts of a speech, introduction, body, and conclusion are discussed; scorecard and answering audience questions included. 7 p. : ill. Document available: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for member, elementary level, junior high level. Learning experience: Knowledge, skills, practices.

1486

Group recreation - to wind you up so you never run down.

Grasse, Susan L. 1979. Suggests games and other recreational activities to help recreation leaders. Much of the material was gathered from other states. 12 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices; Social.

1487

Growing house plants, 4-H leaders guide, house plant I.

Berninger, Lou. Everson, Norm. 1979. This guide consists primarily of suggestions for leaders for a series of five project meetings. A list of additional house plant related publications is included. 4 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience: Knowledge, skills, practices.

1488

A guide for volunteers, teaching teens "stuff" that counts.

Hemmerich, Cecelia A. Voichick, Jane. Thompson, John F. 1973. This guide is not a nutrition resource but deals with food leaders in 4-H or EFNEP understanding teenagers and relating this understanding to teacher-learner opportunities. 23 p. Document available from: Agricultural Bulletin Building, 1535 Observatory Drive, Madison, Wisconsin 53706. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

1489

Gun safety.

Hanson, Marvin C. 1971. This guide covers gun types and parts; basic rules of gun safety; gun care, storage, and cleaning; marksmanship; and hunter's responsibility. 13 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Junior High Level. Learning Experience: Knowledge, skills, practices.

1490

Happiness is, 4-H leaders guide in mental health.

Williams, Roger T. Best, Marie L. 1976. This guide gives directions for implementing the many activities suggested in the member's guide and lists helpful, available references and visual resources. 8 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices.

1491

Happiness is, 4-H members guide in mental health.

Williams, Roger T. Best, Marie L. 1976. This project is designed to help youth comfortable about themselves, feel right about others, and to face problems and meet the demands of life. 16 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for member, elementary, junior high, and senior high levels. Leader's guide available. Learning experience: Knowledge, skills, practices; Social; Personal growth.

1492

History and heritage leader's guide.

Joseph, Matthew L. Mackey, J. Mitchell. 1974. This guide provides an introduction and overview of all the Wisconsin 4-H history and heritage activities, the objectives, available literature, and suggestions for implementing. 15 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Citizenship and community.

1493

History and heritage project.

Joseph, Matthew L. 1975. This guide for members suggests that any one of the Wisconsin 4-H history and heritage activities can be adapted and carried out as an individual 4-H project. 4 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Elementary Level. Learning Experience: Knowledge, skills, practices; Citizenship and community.

1494

Home energy investigations, member's guide.

Thomas, Susan. Kobey, Karen. Hesler, Dixie. Gleason, Bill. Bua, Deb. 1980. This publication contains about fifteen home and family related energy investigations and energy conservation activities that 4-H members can perform. Uses the "home helper" concept. 34 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Elementary Level. Learning experience: Knowledge, skills, practices; Family.

1495

How plants grow: a 4-H plant and soil science project.

Brehm, Arthur W. Combs, O. B. 1975. This guide consists primarily of exercises related to plant growth, plant parts and processes. It suggests things to do, activities, and has a glossary of terms. 9 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices.

1496

The interview, 4-H history and heritage activity.

Joseph, Matthew L. 1974. This guide is designed to assist leaders get their group started in making effective interviews with older citizens of the community to collect historical information. A sample interview is included. 5 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Citizenship and community.

1497

Landmarks, a 4-H history and heritage activity.
Joseph, Matthew L. 1974. This group activity involves the discovering and marking of historical sites in the community. Learning about the site and publicizing are also important parts of the activity. 3 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience: Citizenship and community.

1498

Leaders guide for clothes and you - includes project planning guide to assist leaders in planning with members.
Landry, Lenore. Keske, Eldora. 1974. This guide is designed to assist Unit 2 4-H clothing project leaders plan learning experiences for members based on member developmental level characteristics. 16 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices; Personal growth.

1499

Leaders guide for hand stenciling.
Iverson, Alice. 1960. This guide suggests things for the leader to do and supplies needed for five project training meetings. It includes a "learn and do" insert for both members and leaders. 4, [2] p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

1500

Leader's guide in art for 4-H drawing and painting projects.
Kuemmerlein, Kenneth R. 1971. Four major areas are suggested for planning art experiences: 1) use of basic concepts, 2) introducing procedures in techniques, 3) initiating an art project, and 4) evaluation. 8 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

1501

Leaders guide in block printing.
Kuemmerlein, Kenneth. 1967. This guide briefly treats the project objectives, the leader's role, training meetings, and teaching suggestions. [2] p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices.

1502

Leaders' guide on electrical safety for safety activity leaders in the Wisconsin 4-H safety program.
Brooks, L. A. 1970. This guide consists primarily of suggested activities for clubs and for members to do relating to electrical safety, plus suggested topics for talks and for demonstrations, and lists of leaflets on electrical safety. 4 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices; Citizenship and community.

1503

Leader's guide on farm machinery safety for activity leaders in the Wisconsin 4-H safety program.
Jensen, Donald V. 1979. This guide consists primarily of suggested things for clubs and for members to do relating to farm machinery safety, plus suggested topics for talks and for demonstrations. 3 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices; Citizenship and community.

1504

Leader's guide to designing your own 4-H project (self-determined).
Pierick, Wilfred J. Gleason, Bill. Hesler, Dixie. 1979. This guide defines "self-determined" and the "home helper" concept; tells how the leader can help the member choose, plan, and implement the project. 4 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for

Leader, Senior High Level.
Learning Experience:
Knowledge, skills, practices;
Decision making.

Madison, Wisconsin 53706.
Publication intended for
Member, Elementary Level.
Learning Experience:
Knowledge, skills, practices.

1505

Let's grow flowers.

Berninger, Louis M. 1975. This publication covers the planning of flower beds, starting, growing, and care of annual and perennial flowers. Also includes are flower exhibiting, displays, and arrangements. 18 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

1509

Look your best.

Landry, Lenore. 1977. This circular contains an "every occasion" evaluation check sheet with a key and guide questions; useful for judging 4-H dress revue. 4 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for member, elementary, junior and senior high levels. Learning experience: Knowledge, skills, practices ; Decision making ; Personal growth.

1506

Let's grow flowers, leader's guide.

Berninger, Louis M. 1976. This leader's guide includes flower project objectives, project meeting suggestions, and opportunities for learning and doing by member age levels. Lists of available resource publications and visuals are included. 6 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience: Knowledge, skills, practices.

1510

Lost-arts fair, 4-H history and heritage activity.

Joseph, Matthew L. Harle, Dieter. 1974. The major portion of this guide is devoted to the steps in planning a lost-arts fair, an event where people demonstrate the arts, crafts, and skills of yesteryear. 6 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, WI 53706. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Citizenship and community.

1507

Let's make a lawn, 4-H home grounds project.

Ziegler, George A. 1961. Two major parts of this publication are making a new lawn and caring for an old lawn. Included are recommended seeding mixtures; fertilization; watering; weed, disease, and pest control. 4 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Elementary Level. Learning Experience: Knowledge, skills, practices.

1511

Making maple syrup.

Ekleberry, Jay. 1979. This publication covers equipment needed, and procedure for topping trees, collecting sap, and making maple syrup. 2 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Junior High Level. Learning Experience: Knowledge, skills, practices.

1508

Let's plant trees and shrubs, a 4-H home grounds project.

Ziegler, George A. 1961. This publication first outlines the steps in planting new trees and shrubs, then covers pruning and care of shrubs, deciduous trees and varieties of evergreens. 4 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street,

1512

Meat animal leader's guide.

Hirschinger, Carl W. 1980. This guide uses a child-centered approach to 4-H livestock project leadership. Included are a facilities, feeding, and management checklist; leadership tips; and resource and breed association lists. [20] p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience:

Knowledge, skills, practices.

1513

Member guide to designing your own 4-H project (self-determined).

Pierick, Wilfred J. Gleason, Bill. Hesler, Dixie. 1979. This guide is intended to help 4-H members select and plan a self-determined project, enlist a "home helper," assess progress, and share accomplishments with others. 6 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices; Decision making.

1514

Metal enameling.

Kuemmerlein, Kenneth. 1970. This publication is about the process of metal enameling; equipment needed, materials used, work areas, techniques, and design. 19 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Elementary, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

1515

Metal enameling, 4-H crafts projects leader's guide.

Schwalbach, James. 1962. This guide primarily covers project training - meeting facilities, required tools, materials, and equipment. General treatment is given to things to do and discuss at training meetings. 4 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices.

1516

Outdoor recreational safety, leader's guide.

Best, Marie L. Heller, John H. Jensen, Donald V. 1973. This safety guide relates to many forms of outdoor recreational activities. Each form of recreation discussed includes "things to do and learn" and a list of references. Included are water safety, boating, hunting, skiing, hiking, outdoor cooking, and

snowmobile safety. 16 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Leader, senior high level. Learning experience: Knowledge, skills, practices.

1517

Pigeons.

Skinner, John L. 1977. Publication begins with opportunities for learning and doing in the pigeon project and includes history, behavior, all aspects of feeding and management, bonding, record keeping, training and grooming for show. 15 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Elementary, Junior and Senior Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

1518

A place of my own, homes for living, youth project, advanced.

Harle, Kathryn. 1973. Sections included in this publication are on selecting a place to live, budget decorating ideas, management of finances, advertising, consumer buying, and community planning. 36 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making. Citizenship and community.

1519

A place of my own, homes for living, youth project, advanced, leader's guide.

Harle, Kathryn A. 1973. This guide includes developmental characteristics of fifteen to eighteen year olds, has guide questions for project evaluation with members, and suggested outlines for project evaluation with members, and suggested outlines for project meetings. 21 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Leader, Senior High Level. Learning Experience: Knowledge, skills, practices; Leadership skills; Decision making; Citizenship and community.

1520

Pleasure riding, 4-H horse and pony program.

Antoniewicz, Ray. 1972. This guide includes riding horse selection, saddling and unsaddling, conditioning and training for obstacles, safety, conduct and manners, and other trail ride suggestions. 8 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member and Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

1521

Pork production, project guide for members and leaders.

Giesler, Fred. Kolb, Quin. Hirschinger, Carl. 1973. This guide supplements 4-H 200, Pork Production. It is intended to aid in member project planning, goal setting, record keeping, and management. Includes note to parents. 13 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Leader, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

1522

Poultry for fun and food.

Skinner, John L. 1979. This publication treats poultry as all-inclusive, from song birds, to game birds, to domesticated fowl. It includes planning, selection, production, marketing, showing and judging. 15 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Elementary, Junior and Senior Levels. Learning experience: Knowledge, skills, practices.

1523

Selecting and preparing vegetables for display.

Combs, C. B. 1970. This publication is directed primarily to the fair exhibitor, but information can apply to roadside vegetable stands or grocery stores. Major quality features are given for most commonly exhibited vegetables along with selection and preparation suggestions. 13 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706.

Publication intended for Member, Elementary Level. Learning Experience: Knowledge, skills, practices.

1524

Showing the horse at halter and showmanship.

Antoniewicz, Ray. 1980. Publication includes ring conduct; actions, appearance and attitude of exhibitor; and leading and posing the horse. 3 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

1525

Small engines, operation and maintenance, Unit 1.

Meyer, Emil. Berge, Orrin I. Pierick, Wilfred J. 1974. This unit covers two-cycle and four-cycle engine characteristics, parts, care, operation, maintenance, storage and safety. 19 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Elementary, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

1526

Small engines, operation and maintenance, Unit 1, leader's guide.

Meyer, Emil. Pierick, Wilfred J. 1972. This guide explains the job of the 4-H small engines leader, gives general suggestions on working with groups, and specific suggestions for project training meetings. 11p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices. Leadership skills.

1527

Social recreation - fun with groups, circles - lines - squares.

Heller, John H. 1972. This circular is designed to assist recreation leaders develop skills in leading social recreation including dances done in circles, lines, and squares. 16 p. Document available from: 4-H Youth

Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices; Social.

1528

Sportsmanship project.

Ellarson, Robert. 1971. This publication presents basic wildlife information for hunters, including wildlife population, communities, and management. It teaches proper use of firearms, field behavior, hunting ethics, and citizenship. 13 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member and Junior High Level. Learning experience: Knowledge, skills, practices.

1529

Stencil painting.

Iverson, Alice. 1960. This circular tells how to do hand stenciling with suggestions for creative design. It covers the steps from design, to stencil, to painting. 9 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member and Elementary, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

1530

Steps in 4-H program planning.

George, Barbara Halpin. Lueder, E. J. 1977. This booklet is designed to assist 4-H clubs plan their yearly program of meetings, activities, and events using the committee approach. Examples of helpful planning and evaluation forms are included. 23 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Leader and Senior High Level. Learning experience: Leadership skills.

1531

Teen leader, the 4-H youth leadership series.

Lueder, E. J. Binder, Karen L. 1975. This is the third of four 4-H youth leadership units. Included are 4-H goals, life skills, planning a series of meetings, working with adults and self-evaluation. 11

p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Leadership skills.

1532

Things to do and make for girls enrolled in the "clothes and you" project.

Landry, Lenore. Keske, Eldora. 1973. This 4-H unit 2 clothing publication is designed to assist members plan their clothing needs and has guidelines and patterns for constructing clothing articles. 18 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Junior and Senior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Decision making; Personal growth.

1533

This is where I live, homes for living, youth project, beginner.

Harle, Kathryn. . This publication treats the elements of design as they relate to the home environment and tells how to make articles for the home with stitchery, applique, weaving, macrame, and other techniques. References are given. 34 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Elementary and Junior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making.

1534

This is where I live, homes for living, youth project, beginner, leader's guide.

Harle, Kathryn. 1972. This guide includes developmental characteristics of nine to eleven year olds, has guide questions for project evaluation with members, and suggested outlines for project meetings. 15 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Leader and Senior High Level. Learning experiences: Knowledge, skills, practices. Leadership skills.

1535

Town history, a 4-H history and heritage activity.
Joseph, Matthew L. 1974. This guide suggests organizations that can assist in the search for local heritage, typical items of interest for a town history, and suggestions for writing a town history. Lists of some published Wisconsin town histories and area research centers are included. 6 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Citizenship and community.

1536

Toys and things to fill a child's world.
Bakawa, Lois. 1973. This publication suggests toys and games for children ages two through five, covering imitating games, guessing games, choosing games, finger games, hide and seek games, and games of skill. 18 p. : ill. Document available from: Agricultural Bulletin Building, 1535 Observatory Drive, Madison, Wisconsin 53706. Publication intended for: Member, Leader, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Personal growth.

1537

Traffic safety, leader's guide.
Jensen, Donald V. Matson, Robert. 1973. This leader guide in 4-H traffic safety has suggestions for things to do for both individual members and for 4-H clubs and general traffic safety suggestions. 4 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices. Citizenship and community.

1538

The vegetable garden.
Combs, C. B. Schoenemann, John A. 1864. This publication tells what one needs to know to grow a garden in Wisconsin, including planning; planting; soil; fertilization; watering; weed, insect, and disease control; includes a planting guide. 24 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member,

Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

1539

Vegetable garden project meeting suggestions.
Schroeder, James C. 1975. The primary purpose of this guide is to outline suggestions and activities for leaders in conducting garden project meetings. 6 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience: Knowledge, skills, practices.

1540

Water and you.
Entine, Lynn B. 1979. This unit deals with concerns one may have about water such as: water for recreation, family water supply, water for crops and manufacturing, floods, weeds and algae, and water quality related problems. Many suggested water related activities are included. 34 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Junior High Level. Leader's guide available. Learning Experience: Knowledge, skills, practices; Careers, earning and saving.

1541

Water and you, leader guide.
Entine, Lynn B. 1979. This guide suggests activities structured around members' interests, career information, and possible resources. Emphasis is placed on suggestions to leaders for carrying out each of the major activities in Unit 2. 5 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Leadership skills.

1542

Wisconsin trees and woods.
Peterson, Harlan. 1979. Major parts of this publication include the forest as a community; tree identification; the tree, its parts, and how it grows; tree planting and propagation; and forest values. Suggested project activities are included. 20 p. : ill. Document available from: 4-H

Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member. Publication intended for: Elementary Level. Learning Experience: Knowledge, skills, practices.

1543

Wisconsin wild flower study. Ellarson, Robert. 1963. Wildflower study includes wildflower identification, their habitats, knowing flower parts and leaf arrangements; collecting, pressing and preserving; and wildflower conservation. A resource list is included. 12 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member and Elementary Level. Learning experience: Knowledge, skills, practices.

1544

Wisconsin 4-H bicycle program. Lueder, E. J. Shaw, William D. Schoedel, Donald O. 1974. This guide incorporated national 4-H bicycle units, 1, 2, and 3 plus Wisconsin supplements. It includes common traffic violations, safety tips, several quizzes, and a bicycle inspection form. 25 p. in various pagings : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Elementary, Junior and Senior High Levels. Leader's guide available. Learning experience: Knowledge, skills, practices. Citizenship and community.

1545

Wisconsin 4-H rabbit project. Skinner, John. Lund, Royal, Jr. 1975. Publication includes suggestions for getting started, breeds, selection, housing, equipment, feeding and care of rabbits. It has a section on disease prevention and one on shows and exhibiting. 10 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon, Madison, Wisconsin 53706. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Leader's guide available.

1546

Wisconsin 4-H rabbit project, leader's guide.

Skinner, J. L. 1975. This guide lists project suggestions, the project leader's role, and meeting suggestions. There is a list of suggested member activities and resources. 5 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices.

1547

Woodworking I, adventures in woodworking. Barquest, Glenn D. 1979. This first unit of five introduces a seven-step "exploratory" concept of learning woodworking skills and the "home helper" concept; includes plans or "working drawings" for beginner articles. 61 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for member, elementary and junior high levels. Leader's guide available. Learning experience: Knowledge, skills, practices ; Family ; Personal growth.

1548

Woodworking leader's guide. Barquest, Glenn. 1979. This guide uses a "big idea" format, telling about and giving helpful hints for dealing with members, families, woodworking experiences, youth leadership, project meetings, and judging woodworking articles. This leader's guide for all five member manuals. 15 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader, senior high level. Learning experience: Knowledge, skills, practices ; Family.

1549

Woodworking 2, greater adventures in woodworking. Barquest, Glenn D. 1974. Unit of 2 of five tells about wood; reading and using drawings; use of hand drill, bit and brace, and wood screws; and includes plans for Unit 2 level articles. 25 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for member, elementary and junior high levels. Leader's guide available. Learning

experience: Knowledge, skills, practices ; Personal growth.

1550

Woodworking 2, greater adventures in woodworking.
Barquest, Glenn. 1980. This publication continues use of the exploratory learning and home helper concepts. Learning skills include reading and using drawings; using jig saw, hand and electric drills, electric sander and wood screws. Includes plans for making articles of unit two difficult. 63 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Elementary Level. Learning experience: Knowledge, skills, practices.

1551

Woodworking 3, learning and building.
Barquest, Glenn D. 1974. Unit 3 of 5 includes use of both hand and electric powered tools including jig saw, electric drill and oscillating sander ; has plans for making articles of Unit 3 difficulty. 29 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for member, junior and senior high levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

1552

Woodworking 4, building bigger things.
Barquest, Glenn. 1972. This fourth unit in 5 discussed kinds of wood and wood products used principally for furniture and indoors, wood finishing, tools, sharpening tools, wood joints and plans for making articles of Unit 4 difficulty. 25 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for member, junior and senior high levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

1553

Woodworking 5, the craftsman.
Barquest, Glenn. 1972. Unit 5 in a sequence of five begins with sharpening auger bits and twist drills. It deals principally with use of power tools, saw operations,

advanced wood fastening, interior and exterior finishes. Plans are included for advance articles. 45 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for member, junior and senior high levels. Leader's guide available. Learning experience: Knowledge, skills, practices.

1554

The world of light, unit 3, 4-H electricity project.
Brooks, Lynndon A. 1975. This unit deals with home and farm lighting, both indoor and outdoor. It covers lighting of specific rooms and work areas and lighting for specific purposes. 24 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for member. Publication intended for junior high level, senior high level. Leader's guide available. Learning Experience: Knowledge, skills, practices ; Decision making.

1555

You can grow house plants.
Berninger, Lou. Hoffman, Gertrude. 1961. This publication is on house plant culture, care, pest control, disease and problem correction, effective use of plants in the home, ideas for display and house plant judging. 11 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Elementary Level. Leader's guide available. Learning Experience: Knowledge, skills, practices.

1556

4-H activities.
Pierick, Wilfred J. 1979. This publication describes all the activities available in the Wisconsin 4-H Program, such as speaking, drama, health, and safety. Available resources and awards are included. 15 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader, Senior High Level. Learning Experience: Decision making; Personal growth; Citizenship and community.

1557

4-H bee project.

Gojmerac, Walter L. 1979. This guide for bee project members has many questions and answers on bee management and seasonal care. It lists things to do and learn for beginning and for following years and lists references and visuals. 9 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Elementary Level. Learning Experience: Knowledge, skills, practices.

1558

4-H beef manual.

Williams, Dave. 1980. This manual is adopted to Wisconsin from the Nebraska publication of the same name. It covers selection, feeds, feeding, and management; and training, grooming, and showing. 23 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Elementary Level. Learning experience: Knowledge, skills, practices.

1559

4-H cat project.

Henderson, Mrs. Carol. Skinner, John L. 1975. This booklet gives a rather comprehensive treatment of cat care. The importance of planning, preparation, and selection are stressed; includes training, health and safety, grooming, and showing. 23 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

1560

4-H community development leader's guide.

D'Onofrio, Barbara. 1980. Community development is approached as a process. This guide is designed to help 4-H club leaders look at community service possibilities from seven aspects: 1) health and safety, 2) recreation, 3) organizations, 4) business, 5) people, 6) culture, and 7) environment. 17 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience: Knowledge, skills, practices; Citizenship and community.

1561

4-H electricity, leader's guide.

Brooks, Lynndon A. 1975. This guide is intended for all four units of the 4-H electricity project and lists references, resources, and project meeting suggestions with specific suggestions for various parts of the four units. 9 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for leader. Publication intended for senior high level. Learning Experience: Knowledge, skills, practices.

1562

4-H festival, art, music, drama.

O'Brien, Helen. Swan, Robert. 1971. This guide provides suggestions for planning and holding 4-H festivals - things to include on the program, music presentation suggestions, and suggestions for exhibiting art and crafts. 5 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices.

1563

4-H field crops, project guide for members and leaders.

Oplinger, Edward S. Everson, Norman O. 1973. This guide includes project objectives; opportunities for learning and doing; suggestions for demonstrations, talks, and exhibits; ideas for field trips or tours; references; and resources. 9 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Elementary Level. Learning Experience: Knowledge, skills, practices.

1564

4-H grand-kids activity.

Mackey, J. Mitchell. O'Brien, Helen. 1976. This guide discusses the objectives and benefits of the grand-kids activity and how to seek out the elderly. There are suggestions for youth and elderly working together in the areas of home arts, recreation, services and tutoring. 7 p. :. ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader. Learning Experience:

Social; Citizenship and community.

1565

4-H handyman project, a guide for members and leaders.

Barquest, Glenn. Bosak, Gregg. Graber, Mike. 1975. A major part of this guide consists of examples of repair, maintenance, and construction jobs, for seasons of the year, related to the individual, family, home, recreation, and farming. References are given. 8 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.; Decision making; Personal growth.

1566

4-H knitting skills, leader's guide.

Heise, Ardith. 1979. This guide contains primarily suggested outlines and suggested subject matter for 4-H knitting project meetings. It includes instructions for knitting a baby sweater and an Aran shoulder bag. 17 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader, Senior High Level. Learning Experience: Knowledge, skills, practices.

1567

4-H music project guide for members and leaders.

Swan, Robert. 1976. This guide uses a creative approach to music as a 4-H project. Reference lists include: 1) instruction books for playing many different musical instruments, 2) how to build your own musical instruments, and 3) theory of sound. 9 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Elementary, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

1568

4-H poultry projects, leader's guide.

Skinner, John L. Everson, Norman C. Pierick, Wildred J. 1979. This leaders guide uses a child-centered and family approach. It includes suggested outlines for project training meetings and lists of

available resources. p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Leader and Senior High Level. Learning experience: Knowledge, skills, practices. Family.

1569

4-H program planning steps.

George, Barbara Halpin. 1977. This booklet is a condensed version of 4-H 259, Steps in 4-H Program Planning, on using committees to plan the annual 4-H Program. 5 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Leader and Senior High Level. Learning experience: Leadership skills.

1570

4-H project planning guide for creative crochet, for member and leaders.

Danes, Sharon M. 1973. This guide suggests things members can learn and do in 4-H crocheting divided into three levels - beginning, intermediate, and advanced; includes suggestions for leaders. 9 p. Document available from: 4-H Youth Development, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Leader, Junior and Senior High Level. Learning Experience: Knowledge, skills, practices.

1571

4-H sheep production.

Glewen, M. J. Pope, A. L. Hirschinger, C. W. 1979. This sheep project manual covers project planning, animal selection and management, with strong emphasis on feeding and fitting and showing; lists other resources. 16 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices.

1572

4-H swine project.

Giesler, Fred. Pierick, Wilfred. 1973. This manual is directed toward efficient production of meat-type hogs; included are breeds, hog parts, digestive system, health, club activities and

ideas for demonstrations and talks. 23 p. : ill. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for: Member, Elementary, Junior and Senior High Level. Learning experience: Knowledge, skills, practices. Leader's guide available.

1573

4-H tropical fish.

Hilgers, Richard. Skinner, John L. 1976. This publication is devoted to the planning, preparation, selection, and subsequent care of tropical fish. Contents include water requirements, aquarium decorations, nutrition, breeding, maintenance, and diseases. 19 p. Document available from: 4-H Youth Development, Lowell Hall, 610 Langdon Street, Madison, Wisconsin 53706. Publication intended for Member, Elementary and Junior High Level. Learning Experience: Knowledge, skills, practices.

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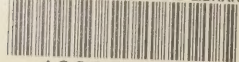
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